CONSTRUCTION NEWS

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

BUFFALO & SUSQUEHANNA.—H. Herden, Ch. Engr., Castleton, Pa., advises us that this company does not propose to rebuild the line from Juneau to Sagamore, as noted on Nov. 7.

BURR'S FERRY, BROWNDEL & CHESTER.—The Texas Railroad Commission has given this company permission to register an issue of $165,000 bonds on eleven miles of completed road from Rockland, Tex., west. The road has been in operation from Aldridge to Rockland, eight miles, for some months, and is being extended to Browndel, 22 miles. It is projected from Chester, on the Missouri, Kansas & Texas, east via Rockland and Browndel to Burr's Ferry, 80 miles. P. G. Omohundro is Ch. Engr., Rockland, Tex.

CALIFORNIA.—In order to secure the contracts for hauling freight to the Los Angeles aqueduct, advertisements for which have appeared, the successful bidder will have to build a 155-mile railroad, costing about $2,500,000. It is estimated that the freight will amount to 20,000,000 ton-miles, which at 6 cts. a ton mile will amount to $1,200,000 for transportation. The Board of Public Works, Los Angeles, will receive bids until Jan. 10, 1908.

Bids were received recently by the Board of Harbor Commissioners of San Francisco for laying new rails on the belt line railroad, the lowest bid being that of Flynn & Treacy, at $7,905; and for the construction of a wharf at Illinois St., the lowest bids for which was $56,785, submitted by the Mercer-Fraser Co.

CHESTERFIELD & LANCASTER.—It is announced that it is proposed to extend this road to Charlotte or Concord, N. C., when the financial situation improves enough to justify it. A. G. Page is Supt., Cheraw, S. C. This railroad now extends from Cheraw to Pageland, 35 miles.

CHIPPEWA VALLEY & NORTHERN.—This company proposes to build during 1908 an extension to Radisson, Wis., about seven miles long. D. J. Arpin is Pres., Grand Rapids, Wis.

COLORADO, TEXAS & MEXICO.—Morris R. Locke, Pres., Mangum, Ark., states that 79 miles have been graded on this road, which is under construction from Mangum, Okla., to Abilene, Tex., 200 miles. It is expected to have 50 miles ready for operation by March 1 next.

DENVER, LARAMIE & NORTHWESTERN.—Construction may begin in the early spring on the line from Denver to Fort Collins, Colo., about 60 miles. Charles S. Johnson is Pres., Denver, Colo.

DOMINION ATLANTIC.—This company will apply at next session of Parliament for an act amending the company's acts of incorporation, by conferring power upon the company to construct and operate a line of railway commencing at a point on the company's line of railway in Nova Scotia between Kentville and Canning, thence in a westerly direction to a point on the company's line of railway between Berwick and Middleton, or to some point between the main line of the company's railway and the North Mountain. Also to issue bonds upon the line of railway to be constructed. W. Yould, Engr., Kentville, N. S.

FORT SMITH & WESTERN.—The Guthrie (Okla.) "Capital" states that "voluntary application for the dissolution of incorporation under the laws of Oklahoma has been filed by the Fort Smith & Western R. R. The application gives notice that all persons desiring may file objections to the dissolution thereof with the clerk of the district court of Logan County on or before Jan. 13, 1908, and if no objection is filed on or before said date, said court will proceed to hear and terminate said application and grant such relief as under the law said railroad company may be entitled to receive. The Fort Smith & Western Co.'s action is explained by its attitude toward the attempted enforcement of the constitution by the railroad commission, in refusing to establish the two-cent maximum passenger fare. All other Oklahoma railroads acquiesced."

GEORGIA.—A Board of Trade has been organized at Bluffton, Ga. The officers are J. J. Hayes, Pres.; J. E. Mansfield, Vice-Pres. and C. R. Sanders, Secy. and Treas. It is planned to build a railroad to Fort Gaines, Ga.

The Washington & Elberton Construction Co., capital $75,000, has applied for a charter to build the proposed railroad from Washington, Ga., to Elberton and finally to Hartwell, Ga. The incorporators are M. M. Elkam, of Macon, Ga.; J. H. Blackwell, of Elberton, Ga.; W. H. Hudson, of Atlanta, Ga.; V. E. Hudgens, of Duluth, and J. J. Wilkinson, W. J. Adams, J. A. Moss, C. D. Bolton and S. S. Bobo, of Tignall, Ga.

GEORGIA & CAROLINA RY.—W. L. Hodges, Pres., Hartwell, Ga., informs us that contracts will be let as soon as capital is secured. Right-of-way is obtained and survey is now being made. The Richardson-Wey Engineering Co., of Atlanta, Ga., and DeCamp & Cunningham, Engrs., of Anderson, S. C., have been selected to act jointly as engineers on the preliminary and location surveys of the Georgia-Carolina Ry. and to make a comprehensive report of the projected line from Athens, Ga., to Anderson, S. C., via Hartwell, about 65 miles. Both steam and electric railway propositions are under consideration. In a previous issue it was noted that this company had applied for a charter to build its proposed line from Athens, Ga., to Hartwell, Ga., and Anderson, S. C. It is stated that an old grade of the Athens & Carnesville Traction Co. may be used for eight miles. The incorporators are A. H. Hodgson, W. F. Dorsey, C. J. O'Farrell and James White, of Athens; A. N. Alford, J. W. Williams, J. H. Hodges, A. J. McMullan, T. J. Linder and W. L. Hodges, of Hartwell; G. W. Westbrook, of Commerce; D. W. Brooks, of Royston; Berry T. Moseley, of Danielsville; A. J. Owens, of Canon, and J. R. Dortch, of Carnesville, Ga.

GRAND TRUNK PACIFIC.—Final route through the Rocky Mountains is said to have been located through the Yellow Head Pass. The surveyors are now working on this route from the pass to the Nechaco and Bulkley valleys. This section of the road will be 400 miles long and a party will be engaged on the surveys all winter. The company is planning to begin construction work in the mountains in the spring. Two years will be required to complete the road from Edmonton to the Pacific Coast. B. B. Kelliher is Ch. Engr., Montreal, Que.

The adjourned meeting of the Grand Trunk Pacific Ry. Co. was held at the company's offices, Montreal, Que., on Dec. 5. Charles M. Hays, Pres., submitted a report on the work done during the year. The total mileage of all lines to be built by the company is 7,900 miles. The mileage under contract, which is in charge of the Grand Trunk Pacific Co., is 988 miles, from Winnipeg westward to Edmonton, including the Lake Superior branch. The Trans-Continental Commission, having charge of the eastern section of the line, has let contracts for 852 miles of the main line, making a total of 1,840 under construction for the new trans-continental line. The President stated in his report that the lateness of spring and the severity of last winter hindered the work of the contractors to a considerable extent, but this is being made up for by the present fall and open weather during the end of November.

Bids are asked until noon, Dec. 23, it is reported, for the construction of 120-mile section westward from Edmonton. P. E. Ryan, Secy. Trans-Continental Ry., Ottawa, Ont.

LOUISVILLE & NASHVILLE.—Surveys are reported to be completed for a cut-off from Larks Mills to Glendale, Tenn.

MISSISSIPPI.—The Haley-Rucker Northwestern Railroad Co., Itta Bena, Miss., proposes to extend from three to ten miles next year along Quiver River, northward.

MASON & OCEANA.—M. F. Butters, Pres., Ludington, Mich., states that it is proposed to standardize this road within the next year and build an extension to Grand Rapids, Mich.

MOREHEA D& NORTH FORK.—Press reports state that this company proposes to build from Paragon to Craney Creek, five miles, by Jan. 1 and to extend early in 1908 from Craney Creek to Redivine, Ky., eleven miles. Guy Snyder is Supt. and Pur. Agent, Morehead, Ky. Company now operates a 10-mile railroad. E. W. Hess is Ch. Engr., Clearfield, Pa.

NEW YORK CENTRAL & HUDSON RIVER.—In the confirmation of a decision of a lower court by Judge Holland of the United States Court of Appeals, the New York Central must build a branch or spur to the mines of the Olanta Coal Mining Co., of Olanta, Pa., that the latter may have the same access to the market as its competitors. The N. Y. Central is given the right to reopen the decree for the purpose of inquiry concerning the safety and convenience of the proposed siding. Originally the coal company offered to assume the expense of the construction, but now the N. Y. Central will have to make the expenditure. The result of this litigation will probably have widespread effect because it establishes a precedent for coal companies in Pennsylvania that have been and are at the same disadvantage as the Olanta owing to the policy of the railroads.

NORTH-WESTERN PACIFIC.—Application will be made to incorporate this company, which proposes to build a line from Fort Churchill on Hudson Bay west to the Pacific coast. Murphy & Fisher, 46 Elgin St., Ottawa, Ont., are the attorneys.

PEOPLE'S RAILWAY.—The company proposes to build from Dallas, Tex., to Leesville, La., but has only made survey from Tyler to Canton, Tex., 38 miles. The officers of the company are as follows: Ben B. Cain, of Tyler, Pres.; John Hurst, Tyler, First Vice-Pres.; D. F. Clark, of Canton, Second Vice-Pres.; T. B. Butler, Tyler, Secy., and S. Bruck, Treas. Concerning this railway, Mr. Cain recently advised us that this company had been chartered and has surveyed a line from Tyler to Canton, and has secured right-of-way, depot grounds and donations. "The company's plan is to have the citizens residing along this line subscribe to the capital stock to a sufficient extent to begin construction, and probably build from ten to twenty miles, and using this constructed road as a basis, finance the balance of the line." The road from Tyler to Canton will be one section of an air line from Dallas to New Orleans, which line will doubtless be built as soon as the railroad situation shall have adjusted itself. The section from Tyler to Canton can be cheaply constructed, so far as grading and bridges are concerned, and traverses a territory which will pay well from the beginning. J. M. Howe is Ch. Engr., Tyler, Tex.

PERLA NORTHERN.—An extension to Whittington, Ark., seven miles, is proposed. C. A. Figley is Supt., Perla, Ark. Company operates 18 miles of line at present.

*PHILADELPHIA & READING.—Bids are asked by W. Hunter, Ch. Engr., Philadelphia, until noon, Dec. 17, for the following work on the P. G. & N. R. R.: Contract No. 5—Masonry, trestle and embankment from south side of Berks St. to the south side of Susquehanna Ave. Contract No. 7—Masonry, trestle and embankment from south side of Susquehanna Ave. to Broad St. Contract No. 8—Bridges from Berks St. to Broad St. Contract No. 14—Masonry, embankment and paving for yards between York St. and Cumberland St. Contract No. 28—Temporary engine yard at Wayne Junction. Plans, specifications and blank forms for bidding may be obtained at Room 320, Reading Terminal, by making a deposit to cover their return in good order.

SAN DIEGO & ARIZONA.—Regarding the construction of the San Diego & Arizona Ry., we are officially advised that surveyors are still in the field and that final locations have yet to be made. Some experimental grading work has been commenced in the city of San Diego, Cal. Possibly some other contracts will be let covering work in the city itself, but no large contracts can be made until the location is finally settled and accepted. Wm. Clayton is Vice-Pres., Union Bldg., San Diego. On Sept. 12th it was noted that the "contract for grading from San Diego, Cal., to Yuma, Ariz., has been let to RENDELL, FRAZIER & CO., of San Diego. John D. Spreckels of San Francisco, Pres., announces that just as fast as the remainder of the right-of-way can be cleared for action additional contracts will be let and the work rushed."

TOLEDO RY. & TERMINAL.—The bondholders' committee of the Toledo Railway & Terminal Co., Andrew T. Sullivan, Chn., which on May 28 purchased the property at the upset price of $2,000,000, has submitted to the bondholders a plan for the disposition of the company. Under this plan a new company is to be organized in Ohio, with not more than $6,000,000 capital stock, to which will be conveyed the railroad and property bought by the committee. The Pere Marquette, the Cincinnati, Hamilton & Dayton, the Pennsylvania Company, the Lake Shore, Michigan Central, the Grand Trunk Western and the Toledo, St. Louis & Western railroad companies are to enter into an agreement with the trustee of the new mortgage to provide, severally, in proportions set forth in the agreement, for payment of interest on the new bonds. In consideration of the agreement the entire capital stock of the new company is to be transferred to these companies, in proportion to their several liabilities under the agreement. The Cincinnati, Hamilton & Dayton's share of the stock is not to be delivered to it unless and until it is restored to solvency or a successor company has assured its obligations. This company has a belt line entirely around the city of Toledo, Ohio, and direct track connections with all railroads. It performs an interchange transfer service for car load freight between all of the railroads and furnishes trackage and freight and passenger facilities for several roads. Its tracks reach a large number of industries, which are thus afforded the advantage of direct connection with every Toledo railroad. Total mileage operated, 56 miles. T. B. Fogg is Vice-Pres. and Gen. Mgr., Toledo.

TRANS-CONTINENTAL.—The report of the Trans-Continental Railroad Commission, which has charge of the building of the eastern sections of the Grand Trunk Pacific R. R., shows up to March 31, 1907, a total expenditure of $6,117,494, of which $5,537,807 is for the fiscal year ending March, 1907. The cost of the headquarters' staff is $166,191; location of lines, $355,896; transportation service, $225,920; and actual construction, $4,569,859. There are 112 miles under construction in New Brunswick, 417 in Quebec, 213 in Ontario, 84 in Manitoba, making a total of 852 miles between Winnipeg and the Atlantic. H. D. Lumsden is Ch. Engr., Ottawa, Ont.

VANCOUVER, VICTORIA & EASTERN.—FRED LANE, of Spokane, Wash., and Grand Forks, B. C., has been awarded a 5-mile grading contract on the Vancouver, Victoria & Eastern R. R., west of Keremeos, B. C.

VEBLEN & NORTHWESTERN.—This company proposes to build a railroad from Veblen, S. Dak., to a point near Wheaton, Minn., 38 miles, 34 miles of which will be in South Dakota and four miles in Minnesota. The entire line has been surveyed. It is expected to begin grading early in the spring. M. J. Hawley is Pres., Watertown, S. Dak.; F. T. Bishop is Secy. and Treas., Veblen, S. Dak.

WYOMING SHORT LINE.—Incorporated in Wyoming to construct a line in the Big Horn country. The new railroad is to be 50 miles in length, extending from Wiley and reaching the eastern border of Yellowstone National Park. The road will pass through Germania, Grey Bull and other towns. The new enterprise is financed by the Big Horn Development Co., which has capitalized the new railroad at $2,500,000. The railroad will pass through the area which is being irrigated and opened up by the development company. A new canal built by the company has been partially completed and water will be turned into the finished portion soon.

ELECTRIC RAILWAYS.

HUNTINGDON, PA.—The Big Valley Electric Ry. Co. has secured right-of-way for its proposed electric railway which will connect Huntingdon, Mill Creek, Allensville, Belleville, Reedsville and Lewistown. It will be about 32 miles long. It is expected that construction work will begin next spring. The Big Valley Electric Ry. is owned and controlled by the Juniata Valley Electric St. Ry. Co., of which R. W. Jacobs is Pres. and Gen. Mgr., at Huntingdon.

MONONGAHELA, PA.—Articles of association of the Monongahela & Carroll St. Ry. Co. have been filed at the State Department. The line will be two miles long, extending from a point on Park Ave., Monongahela, Pa., and over certain highways in that town to the boundary line between Monongahela City and Carroll Township. The capital stock is $12,000. The directors are E. B. Hartman, Jr., Pittsburg, Pres.; W. D. McBryar, Plum St., Elizabeth, Pa.; E. W. Marshall, W. S. Walsh and W. E. Walsh. Noted on Oct. 31.

FREDERICK, MD.—At a recent meeting of the representatives of Frederick and Great Falls, Md., it was decided to make arrangements for building an extension of the Washington, Frederick & Gettysburg Ry. from Frederick to Great Falls. Official announcement was made that "sufficient money for the preliminary survey has been subscribed, and it will be started at once. It will be a direct line from Harrisburg, Carlisle, Gettysburg and Frederick to Washington, and will cost approximately $1,000,000. The best part of the financing has been arranged for." As noted on Oct. 24, D. Columbus Kemp, Pres. of the Washington, Frederick & Gettysburg Ry. Co., Frederick, wrote us that "about two-thirds of the right-of-way has been secured and surveys made for the line between Frederick and Gettysburg, 30 miles. The line will be operated by steam until completed, when electricity will be the motive power used. No contracts have been awarded. Company has been building the line but may give out contracts later."

WASHINGTON, D. C.—The Washington, Spa Springs & Gretta Electric Ry. Co., which is to connect Washington, Bladensburg and Branchville by an electric railway, may begin construction work in January. The railway will be about eight miles long. The company is capitalized at $100,000. The officers are as follows: Benj. D. Stephens, "Gretta," Hyattsville, Md., Pres.; S. S. Yoder, Washington, Vice-Pres. and Gen-Mgr.; Fillmore Beall, 319 John Marshall Pl., Washington, Secy.; R. N. Ryan, Washington, Treas.; Chas. D. Eldridge, Myersville, Md., Elect. Engr.

BURLINGTON, N. C.—The Burgrahaw Traction Co., of Burlington, has been chartered to operate a lighting plant and an electric railway in Burlington, Graham and Haw River, all in Alamance County, N. C. Capital, $250,000. The incorporators are Junius M. Harden, John N. Cook and J. W. Murray, who have subscribed to $30,000 of stock.

SUMTER, S. C.—John L. Alnutt states that if the City Council grants the franchise he has requested, his company will build about ten miles of line in the city, after which attention will be given to the construction of an interurban system in the country around Sumter.

TUSCALOOSA, ALA.—Official announcement is made that the Birmingham & Gulf Railway & Navigation Co., which took over the Tuscaloosa Belt Line, proposes, in addition to converting the road from steam to electricity, to extend it six miles to coal fields. George C. Scales is Supt. Noted fully last week under "Birmingham, Ala."

CLEVELAND, TENN.—J. W. Adams, of Chattanooga, Tenn., who was recently granted a franchise for an electric railway in Bradley County, advises us that no action will be taken at present on any line. Noted on Oct. 24.

CHATTANOOGA, TENN.—The Chattanooga Co., according to the Manufacturers' Record, has made a contract with the Interstate Club, a national institution, to establish its clubhouse, hotel, etc., on Signal Point of Walden's Ridge, and the club will build an electric railway about five miles long from Signal Point to Chattanooga. The Interstate Club's address is at the James Bldg., Chattanooga. W. G. M. Thomas is Gen. Mgr. of the Chattanooga Co., Temple Court, Chattanooga.

AKRON, OHIO.—Charter for the Akron & Youngstown Electric Railroad Co. has been granted. The new company has an authorized capital stock of $100,000 and is headed by Thomas L. Childs, of Akron, who has been at work on the right-of-way and the franchises for some time. The line will run between Akron and Youngstown, about 50 miles.

ZANESVILLE, OHIO.—Surveys are being made by the Central Valley Elec. Ry., Light & Power Co. H. A. Williams and C. E. Zimmerman are interested. Noted on Nov. 21.

CINCINNATI, OHIO.—Samuel F. George, Pres. of the Cincinnati, Dayton & Fort Wayne Ry. Co., Dayton, advises us that contracts probably will be let early next spring for building this line from Cincinnati to Dayton, Ohio, and Fort Wayne, Ind., 194 miles. Right-of-way has been deeded and surveys made. Capital is being secured. The entire railway will be built on a 40-ft. private right-of-way. Noted on Oct. 24.

DEFIANCE, OHIO.—The Toledo & Defiance Ry. Co. and the Defiance, Hicksville & Fort Wayne Ry. Co., both subsidiary organizations to the Toledo, Wabash & St. Louis Ry. Co., have been granted 25-year franchises to build and operate electric railways in Defiance. The franchise provides that only electric cars shall be used on the roads, but that steam cars may be transferred from 9 p. m. until 5 a. m. On Wayne St., the railroad is to be single track with the exception of one block, but on the other streets double tracks may be built. The companies are to furnish a $10,000 damage bond. It is estimated that the road over the routes provided will entail a cost of $100,000. C. D. Whitney, of Toledo, is interested. As noted on Sept. 12, "the Atlantic Construction Co., A. L. Ivish, Mgr., has been organized to build the Toledo, Wabash & St. Louis R. R., which is to be a steam and electric road, extending from Toledo to St. Louis, Mo. Charles H. Nauts has been elected Pres. of the railway company to succeed George G. Metzger, and E. L. Whitney has been chosen Treas. to succeed J. P. McAfee. C. D. Whitney, Toledo, Ohio, is Pres. of the construction company."

INDIANAPOLIS, IND.—Surveys for the proposed Grand Central Traction Co.'s line have just been finished by Will Duncan, Ch. Engr., we are officially advised. The estimated length of the proposed railway is 250 miles. It will be built from Indianapolis to Evansville with a branch from Bloomington to Terre Haute. Company will soon be in the market for all kind of materials necessary for building an electric railway. The officers are: W. D. Whitney, Pres.; O. W. Whitney, Vice-Pres.; O. W. Blickenstaff, Gen Mgr.; Will Duncan, Ch. Engr.; D. H. Morgan, Secy.; N. P. Carter, Treas. General offices are 618 Terminal Bldg., Indianapolis.

MARION, IND.—John O. Willson, Secy. of the Marion & Logansport Traction Co., Marion, advises us that all right-of-way is secured for this company's proposed line from Marion to Logansport, about 40 miles long. There are twelve towns on the right-of-way and all franchises have been granted. James R. Poole is Pres., Marion. Noted last week.

KEOKUK, IOWA.—The Keokuk & Columbus Junction Transit Co. has been incorporated, with principal place of business at Keokuk. It is the intention to own and operate electric railways. The capital stock of the company is $10,000. The following are the board of directors. J. E. Peterson, Ira W. Wills, W. J. Francey, Theodore Brinik, G. W. Mattern, D. B. Hamil, D. B. Well, Frank L. Darrow and W. Mullen. J. E. Peterson is Pres. and Theodore A. Craig, Secy.

MINNEAPOLIS, MINN.—Contracts for grading work, it is reported, are being let by the Minneapolis, Rochester & Dubuque Traction Co. Noted on Oct. 31. M. W. Savage is Pres. and Treas. and F. G. L. Hunt is Ch. Engr., 114 South Fourth St., Minneapolis.

OMAHA, NEB.—We are officially advised that surveys have been made by the Omaha & Nebraska Central Ry. Co. for its proposed electric line from Omaha to Hastings, Neb., via Wahoo and David City, 159 miles. Right-of-way for one-third of the distance has been deeded. Tentative agreements have been made for capital for construction. Contracts probably will be awarded early next spring. H. C. Long is Pres., 617 Tremont Bldg., Boston, Mass. E. R. Long, David City, Neb., is interested.

ST. JOSEPH, MO.—H. G. Krake, Secy. of the Missouri Valley Traction Co., St. Joseph, advises us that this company, which proposes to build an interurban line from St. Joseph to Mirabile and to Excelsior Springs, 68 miles, has secured capital for preliminary work only. Date for letting contracts is indefinite. Surveys are under way. Right-of-way is partly obtained. The officers are Thos. B. Campbell, Pres.; Judge L. L. Frost, First Vice-Pres.; W. A. J. Bell, Second Vice-Pres.; A. M. Bates, Treas.; H. G. Krake, Secy.; C. W. Campbell, Ch. Engr. Principal place of business, Board of Trade Bldg., St. Joseph.

OREGON, MO.—The Oregon Interurban Ry. Co., which was incorporated recently, will build a line about six miles long from Oregon, Mo., to the Chicago, Burlington & Quincy Railroad or to Forest City, Mo. Capital, $60,000. Preliminary survey has been made by George Custer, of Marysville, Mo., and route selected. Company is not yet ready to let contracts. Benjamin F. Morgan is Pres., Lewis I. Moore, Secy.-Treas. The other directors are C. D. Zock, T. Z. Dungan, D. Zachman, W. H. Richards, W. A. S. Derr, Jacob Bucher and H. C. Cook, all of Oregon, Mo. Noted on Nov. 21.

LA JUNTA, COLO.—We are officially advised that the Arkansas Valley Traction Co. has secured practically all right-of-way for its proposed line from La Junta to Rocky Ford, Colo., twelve miles. Surveys have been made and arrangements are being made to finance the construction work. There will be two bridges built; grading will be light. Bids will be taken some time in January. G. W. Swink, Rocky Ford, is Pres.; F. T. Lewis is Ch. Engr., La Junta. Gasoline motors will be used. Noted on Oct. 17.

DALLAS, TEX.—The Dallas Interurban Electric Railway Co., which is building an electric railway between Dallas, Terrell and Tyler, will resume construction work about March 1, 1908. The American Engineering Co., of Indianapolis, has recently completed survey for 84 miles. The company probably will locate its power station at Dallas and will also own and operate an amusement park. The capital stock is $2,400,000, of which $1,800,000 is common and $600,000 preferred. The officers are: D. E. Waggoner, Pres.; I. J. Willingham, Vice-Pres. and Gen. Mgr.; S. A. Stemmons, Secy.; M. H. Wolfe, Treas., and J. Mercer Carter, Supt., all of Dallas. The offices of the company are at 219 Commerce St., Dallas.

AUSTIN, TEX.—The City Council has passed a resolution extending the time six months for work to begin on the Texas Interurban Railway Co. C. P. Scrivener, of Austin, is Ch. Engr.

SPOKANE, WASH.—The Big Bend Traction Co., it is reported, will be in operation by Jan. 1, 1908. The length of the road will be about twelve miles and it will connect Davenport, Wilbur Beach, Nine Mile and Spokane. The company will use overhead trolley and will operate 26 cars. The power station is to be built at Seven Mile Dam. The officers are: F. O. Adams, Spokane, Pres.; S. H. Stoutfire, Vice-Pres. and Secy.; M. Smith, Treas.; W. S. Foster is Ch. Engr.

HANFORD, CAL.—The Board of Supervisors is reported to have passed the electric railway franchise ordinance applied for by F. S. Granger. Noted on Oct. 31.

SAN DIEGO, CAL.—E. W. Peterson, of the South San Diego Land Co., states that a franchise will soon be asked for an electric railway to connect with the street railway in course of construction in the tract of the company. This line will run from the head of the bay to the west boundary of South San Diego and run to the belt line railroad at the northern end.

H. W. Keller and W. G. Kerchoff of Los Angeles, and Ed. Fletcher of San Diego are the interested parties in a franchise for electric lines here, under the terms of which $50,000 must be spent in actual construction by Jan. 1, 1908.

LAKEPORT, CAL.—The Sonoma & Lake County Ry. Co. has secured right-of-way and franchises, and announcement is now made that actual construction work will be started in the spring. W. S. Fry, Secy. In August we were advised by Mr. Fry that "the purpose of the company is to construct an electric railway from Cloverdale to Lakeport, with a branch to Kelseyville. Survey has been made and right-of-way secured from Lakeport to Cloverdale, a distance of 27 miles, with a maximum grade of not over 3%. The profiles and maps are being prepared, and it is the intention to begin work on the road soon. The Lakeport Board of Trustees has given the company an exclusive franchise. A. C. Dickinson is Pres.; J. F. Fulton is Vice-Pres. and Gen. Mgr.; and D. F. McIntyre is Ch. Engr." Noted on May 9.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

LAMONT, N. Y.—J. C. Horning, Lamont, writes us that Charles E. Collins, of Philadelphia, Pa., has made estimates for a proposed electrical plant to cost $40,000, and to supply energy for light and power. Two water wheels of 400-HP. each and direct connected dynamos will be installed. About five miles of overhead cable and about 2¼ miles of branch cable will be included. It is proposed to serve Gainesville, Silver Springs and Castile. The plant will be operated by water.

ST. GEORGES, DEL.—The Smyrna, Kent County & Delaware Bay Traction Co., Smyrna, Del., proposes to build an interurban line from Smyrna to Woodland Beach and Milford, Del., by way of Dover, and will begin the construction of a power house at St. Georges. J. W. Endean is interested.

BALTIMORE, MD.—The Baltimore Gas & Electric Co., Charles F. Behrens, Manager, Equitable Bldg., will erect central electric lighting and heating plant to supply power for electric houses to be erected in suburbs of Baltimore. (See under Miscellaneous Contracts, Heritage, Baltimore.)

OAKLAND, MD.—The Youghiogheny Light & Power Co., incorporated by Hiram P. Tasker, Alfred G. Sturgiss, Truman P. Tasker and others, will be capitalized at $200,000, it is stated. The company will develop water-power on the Yough River, Muddy and Deep Creeks, near where river has cut a gorge 300 ft. deep between mouths of creeks, giving creeks a fall of about 300 ft. and river a fall of about 200 ft. The plant will be located about half a mile below Deep Creek fall. No dams will be required. Pipes will receive water above each fall and convey it to impulse water-wheels. Estimated cost of plant and equipment, $200,000. Hiram P. Tasker, Hotel Manhattan, is Gen. Mgr.

AMHERST, VA.—The Amherst Electric Light & Power Co. has been organized, and will at once decide on size of plant, etc. It is proposed, if possible, to run plant by water power. O. V. Hanger is Secy.

ELKINS, W. VA.—The Valley Improvement Co. will organize under the name of the Elkins Power Co. and will build an entirely new plant, reconstruct its lines, etc. The company has secured a new franchise for 50 years, and the city contract for lighting has been extended for a term of ten years. A new arc lighting system for street lighting will be installed as soon as the plant is ready to furnish current. The present 110-volt, single-phase, 60-cycle system will be replaced with a 2,200-volt, 3-phase system. Either coal or natural gas will be used for fuel. The company at present is operating under the name of the Valley Improvement Co. C. C. Bosworth, Supt.

WILMINGTON, N. C.—The Consolidated Railways Lighting & Power Co., Wilmington, contemplates the purchase of one 5,000-KW. Westinghouse-Parsons turbo-generator, one 250-HP. Babcock & Wilcox boiler and one 500-HP. Alberger condenser. A. B. Skelding is Mgr., Wilmington.

HOUSTON, MISS.—It is stated that the citizens are considering increasing the capacity of the municipal electric light plant and will install a 120-KW. 60-cycle, 2,200-volt alternator direct connected. J. C. Arnold is Mgr.

LOUISVILLE, KY.—Contracts have been awarded to the GENERAL ELECTRIC CO., Schenectady, N. Y., by the Kentucky Electric Co. for the construction of three turbo-generator sets having a combined rating of 2,300 HP. Donald McDonald is president of the Kentucky Electric Co.

ALLEGAN, MICH.—The Commonwealth Power Co. contemplates construction of a dam across the Kalamazoo River just above Allegan. It will supplement the five dams already built at Allegan, Otsego, Trowbridge and Ceresco, and the new one at Webers, on the Grand River. In addition to these stations the company has smaller stations at Albion and Battle Creek, while at Jackson steam turbines furnish 6,000 HP., and a steam plant generating 1,000 HP. is being installed at Battle Creek. The proposed new dam will generate 2,500 HP., bringing the output up to approximately 17,000 HP. J. B. Foote, Jackson, Mich., is Gen. Supt.

JEFFERSON, IOWA.—The Jefferson Light, Heat, Power & Water Co. contemplates installation of one 150-KW. 3-phase alternator, 100 to 200-KW. 3-phase set, 100 to 200-HP. boilers and possibly a heating plant. Percy Gray is Mgr.

SULPHUR SPRINGS, ARK.—The Kihlberg Co., E. Bee Guthrey, Secy., will install an electric light plant. Smith & Powers, Engrs., will have charge of the work.

DENVER, COLO.—A. E. Wilson, Equitable Bldg., Denver, is reported to have decided to construct a power plant on South Platte River, a short distance from Denver, to cost about $1,000,000. It will permit the generation of 20,000 HP.

BREMERTON, WASH.—Bids are asked at the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until Dec. 17 for naval supplies to be furnished at the navy yard, Puget Sound, Wash., as follows: Schedule 513—electric wire, conduit, switchboard cabinets; Schedule 515—cable, steel, copper pipe, etc.; Schedule 517—incandescent lamps, etc. E. B. Rogers is Paymaster-Gen., Washington, D. C.

BISMARCK (Tacoma post-office), WASH.—Work will start soon on the construction of a steam power plant for the generation of electricity for the use of the suburbs of Tacoma. It is to be erected by the Bismarck Mill Co. of Bismarck. The cost of the plant has not been announced and the promoters have not entirely finished their plans, so they are unable to state exactly the size or the amount of electric power which will be generated. It is the intention to run lines to Fern Hill, Parkland, Steilacoom, American Lake, Spanaway, Indian Addition and other nearby districts. The current will be generated by means of steam power secured by burning the waste from the company's mill.

ELKTON, ORE.—Notice of the appropriation of 2½,000 cu. ins. of water from the Umpqua River for hydro-electric power development has been filed with the County Clerk of Douglas County at Roseburg by J. G. Kelly of Multnomoh County. The point of diversion is at the big bend in the river near Elkton. He expects to erect a dam 50 ft. high, the water to be conveyed through a

canal 90 ft. wide and 15 ft. deep, and then returned to the river at a point 200 ft. southwest of the dam.

PORTLAND, ORE.—The Portland Railway, Light & Power Co. will generate power on the Little White Salmon River and transmit it 60 miles to Portland. B. S. Josselyn is Pres.; F. G. Sykes is Gen. Mgr. of Light and Power, both of Portland.

TORONTO, ONT.—M. G. Reid, Ch. Engr. of the Colonial Engineering Co., Montreal, Que., has made an offer to the city to establish a 25,000 producer plant of 20,000 HP. for $2,875,000 and to light the city with arc lights at $56 a light.

WINNIPEG, MAN.—It is the intention of the Civic Board of Control to call for new bids for construction of the $3,000,000 power plant to be erected by the city at Lac du Bonnet. The engineers have received instructions to alter the specifications wherever necessary.

CALGARY, ALTA.—The City Council has awarded the contract to the CALGARY POWER & TRANSMISSION CO. to supply the city with electric power for five years at $30 per horse power for 24-hour day. The company is to have its plant constructed by March 1909, and supply 6,000 HP. The Alberta Portland Cement Co. offered to supply the city with light at $20 per horse power for 24-hour day, but this offer was ignored. An investigation will be held to determine why the highest tender was accepted.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—The following bids were received on Dec. 9 by James W. Stevenson, Comr. Bridges, for the construction of the masonry piers, surface and sub-surface changes, and steel superstructure of the Manhattan and Brooklyn approaches of the Manhattan bridge over East River, between the Boroughs of Manhattan and Brooklyn: John C. Rogers, 13-21 Park Row, $2,167,000; Williams Engineering Co., 13-21 Park Row, $2,416,820; McClintock-Marshall Construction Co., 13 Park Row, $2,667,978; Maryland Steel Co., 71 Broadway, $2,179,000.

*PHILADELPHIA, PA.—Bids are asked by W. Hunter, Ch. Engr., Philadelphia & Reading Ry. Co., Philadelphia, until noon, Dec. 17, for the following work on the P. G. & N. R. R.: Contract No. 5—Masonry, trestle and embankment from south side of Berks St. to the south side of Susquehanna Ave. Contract No. 7—Masonry, trestle and embankment from south side of Susquehanna Ave to Broad St. Contract No. 8—Bridges from Berks St. to Broad St. Contract No. 14—Masonry, embankment and paving for yards between York St. and Cumberland St. Contract No. 26—Temporary engine yard at Wayne Junction. Plans, specifications and blank forms for bidding may be obtained at Room 520, Reading Terminal, by making a deposit to cover their return in good order. (Noted on Nov. 21.)

EAST MAUCH CHUNK, PA.—The Commissioners of Carbon County on Dec. 3 awarded the contract for the construction of a 100-ft. span across the Lehigh River, at East Mauch Chunk, to HORN & NEFF, Slatington, at $15,432. Noted fully in issue of Nov. 21.

FOSTERVILLE (Greensburg post-office), PA.—An overhead bridge over the Pennsylvania southwest tracks at Fosterville will be built by the Pennsylvania R. R. Co. as a result of a favorable report of the Board of Viewers, W. H. Matthews, S. O. Lowry and W. C. Loor, appointed by the Court. The Pennsylvania Co. may spend $75,000 in building a viaduct that may eliminate the dangerous grade crossing over the numerous tracks there. H. R. Leonard is Engr. Bridges, Pennsylvania R. R. Co., Philadelphia.

*BALTIMORE, MD.—Bids are asked until 11 a. m., Dec. 27, by the Board of Awards, addressed in care of the City Register, for the construction of the concrete bridge across Gwynn's Falls Valley, on the line of Edmondson Ave. J. Barry Mahool is Pres. Bd. of Awards. B. T. Fendall is City Engr. Plans and specifications for this work are on file at office of Engineering News, New York.

OCEAN CITY, MD.—The Baltimore, Chesapeake & Atlantic Ry. Co., will have a new draw built at the Ocean City bridge. Estimated cost, $10,000. W. U. Polk is Supt. Ry. Div., Salisbury, Md.

*FORT MONROE, VA.—Bids are asked in triplicate until noon, Jan. 6, by Capt. Ernest R. Tilton, Constructing Q. M., for the reconstruction of Mill Creek bridge, Ft. Monroe.

CASTLE, N. C.—Plans are on file at office of Engineering News, New York, for the proposed steel highway bridge over Northeast River, near Wilmington, and the cross section of the river at that point. The bridge will be approximately 400 ft. long, including a 60-ft. draw span. The bridge is to be eight feet above high water. The bottom of the river is soft porous limestone. Depth of the water from 30 to 35 ft. The bridge is to be designed for a 16-ft. road and must support a 15-ton road roller. In order that the best and cheapest bridge can be obtained, the County Commissioners have decided that each bidder must submit a detail drawing of the bridge he proposes to construct. Bids will be opened Jan. 7, at 3 p. m., as noted on Nov. 21. Duncan McEachern is Chn. of County Comrs.

SAVANNAH, GA.—Bids are asked until Dec. 30, by the city for the construction of a steel highway drawbridge over the Great Ogeechee River at Kings Ferry, Chatham County. G. Reuben Butler is City Clk.

NEW ORLEANS, LA.—Plans and specifications are on file at the office of Engineering News, New York, for the erection of a rascule trunnion bridge over the Bayou St. John at the intersection of Esplanade Ave. Bids are asked until Jan. 2. Charles R. Kepnedy is Comptroller.

TOLEDO, OHIO.—The Board of Public Service has approved the plans for the construction of the Lake Shore & Michigan Southern Ry. bridge over Swan Creek from Monroe St. to Goose Point. The structure will be of the Scherzer rolling lift type. Estimated cost, about $85,000. B. R. Leffler, Cleveland, is Engr. of Bridges, L. S. & M. S. Ry.

The Board of Public Service has recommended that the Cherry St. bridge be improved. Estimated cost, about $23,000.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Dec. 18, by the Board of Commissioners, Cuyahoga County, for the construction of standard guard railing on the Brecksville road, in Brecksville Township. Julius C. Dorn is Clk. Bd. A. B. Lea is County Surv.

ROCKY RIVER, OHIO.—A single span concrete bridge, about 300 ft. long and 60 ft. wide, may be built across the Rocky River here. Estimated cost, about $250,000.

DAYTON, OHIO.—Bids are asked until noon, Dec. 17, by the Board of Public Service for re-erecting two of the old spans of the Stratford Ave. bridge at the mouth of Wolf Creek, including all necessary oak plank and joists for new floor and guard railing complete; also for cleaning and repainting said two spans; also for 730 cu. yds. of steel reinforced concrete for the abutment plies and wing walls, including excavation. The contractor will be required to haul said two old spans from the present place of storage and furnish new material in place of all the missing or defective members of said two spans. W. A. Maynes is Clk. Bd.

WASHINGTON C. H., OHIO.—Bids are asked by H. H. Chaffin, County Audr., for the construction of a 90½ ft. × 14-ft. steel bridge across Rattlesnake Creek, on the County Road.

SOUTH BEND, IND.—All bids opened on Nov. 22 by the Board of County Commissioners for the construction of a concrete steel girder bridge at La Salle Ave., 80 ft. × 80 ft., were rejected. New bids will be asked about March 1. List of bidders was noted in issue of Dec. 5. Alonzo J. Hammond, South Bend, is Engr. in Charge. John W. Harbow is County Audr.

INDIANAPOLIS, IND.—Bids will soon be asked by the Commissioners of Marion County for repairing the Dorman St. bridge over Pogues Run. Blaine H. Miller is City Engr.

EAU CLAIRE, WIS.—William Danforth, City Engr., advises us that a committee of Council has arranged with Lange & McAulty, contractors, for the preparation of plans for a bridge and dam to be located about two miles south of Eau Claire, across the Chippewa River.

LAKE MILLS, WIS.—The County Board has appropriated $7,000 and the town of Milford has raised $7,000 for constructing a new bridge over the Crawfish River, to replace Hubbleton bridge.

MANITOWOC, WIS.—W. E. PELLET, Manitowoc, has been awarded the contract for widening the drawbridge of Wisconsin Central Ry., at about $6,000.

IOWA CITY, IOWA.—The IOWA BRIDGE CO. has been awarded the contract for the construction of the new park bridge, consisting of three spans, 175 ft. each, with an 18-ft. roadway, at $26,450.

RED WING, MINN.—Bids are asked until Dec. 20 by the County Board and the Board of Supervisors of Hay Creek, at the County Auditor's office, Red Wing, for constructing a steel or reinforced concrete bridge over Bullid Creek, Town of Hay Creek, to be 60 ft. long between the two end walls. L. C. Stromberg is Chn. County Bd. J. H. Gihlsdorf is Chn. Town Bd.

OLD MONROE, MO.—Bids are asked until Feb. 1, by the St. Charles County Commissioners, for constructing a bridge at Old Monroe. Estimated cost, $8,000.

MADISON, ARK.—We are officially advised that bids are asked until noon, Jan. 2, by T. C. Merwin, County Clk., Forrest City, for the construction of a 700-ft. steel highway drawbridge over the St. Francis River at Madison, St. Francis County. H. N. Pharr, 216 Randolph Bldg., Memphis, Tenn., is Consulting Engr.

CLEBURNE, TEX.—J. G. ALLSBERRY, Houston, has been awarded the contract for the construction of a steel bridge over the Brazos River between Cleburne and Glen Rose, at $13,560.

GRAHAM, TEX.—MITCHELL & PIGG, Weatherford, have been awarded the contract for the construction of two suspension bridges across the Brazos River, at $37,280.

IOLA, COLO.—The contract for the construction of the Gunnison County bridge was awarded on Nov. 14 by T. W. Jaycox, State Engr., to the SOUTHWESTERN BRIDGE CO., of Joplin, Mo., instead of to the Pueblo Bridge Co., as erroneously stated on Nov. 28.

SEATTLE, WASH.—The following bids have been rejected by the County Commissioners for the construction of the suspension bridge across the Snoqualmie River: J. F. Macquoid, $3,600; International Contract Co., $4,240. New bids will be asked.

NIGHTHAWK, WASH.—The time for submitting bids for the construction of a bridge over the Similkameen River has been extended to Jan. 7.

GRANTS PASS, ORE.—Bids are asked until 2 p. m., Jan. 2, by the County Court of Josephine County, for the construction of a steel bridge 400 ft. long and 22 ft. wide across the Rogue River.

SACRAMENTO, CAL.—JENKINS & WELLS have been awarded the contract by the Board of County Supervisors for repairing the American River bridge at 12th St., at $5,388.

McDOUGALL & KENNEDY secured the contract for repairing 2,800 ft. of trestle north of American River, on 12th St. road, at $13,795.

ALTADENA, CAL.—Bids are asked until 2 p. m., Dec. 16, by C. G. Keyes, County Clk., Los Angeles, Cal., for the construction of two concrete culverts across Mariposa Ave., Altadena, in the Pasadena Road District.

LOS ANGELES, CAL.—We are officially advised that the following bids were received on Nov. 25 by the Board of Public Works for the construction of a reinforced concrete bridge across the Arroyo de los Posos: Union Iron Works, of Los Angeles, $51,787; Mercereau Bridge & Construction Co., $58,313; F. O. Engstrum Co., $58,330; C. Leonardt, $59,352; W. N. Concanon, $59,639; Atlantic, Gulf & Pacific Co., $61,407; Robert Beryle, $67,074; Midland Bridge Co., $77,215. Horace B. Ferris is Secy. Bd. Homer Hamlin is City Engr. H. G. Parker is Engr. in Charge, bridge design and construction. Itemized prices are given this week under Contract Prices.

ARMONA, CAL.—The following bids were received on Nov. 23, by the Board of Supervisors at Fresno, for the construction of the wooden trestle across the Kings River at Hardwick Station: Western Bridge & Construction Co., $16,300; Warswick Street Paving Co., $15,181; PACIFIC CONSTRUCTION CO., $14,983 (awarded contract).

MARSH (Sweet post-office), IDAHO.—Bids are asked by the County Clerk until Jan. 13, for repairing the south pier of the Marsh and Ireton bridge, across the Payette River here.

VANCOUVER, B. C.—The City Council has decided upon the construction of the following bridges within the city limits: Granville St., estimated cost, $520,000; Cambre Ave., estimated cost, $250,000; Westminster Ave., estimated cost, $170,000; Coal Harbor, estimated cost, $70,000.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Plans for the theatre to be erected at Pleasant and Eliot Sts. and Park Square, have been filed at the office of the Commissioner of Buildings. The structure will be built of granite, with a skeleton steel frame, inlaid with cement and surrounded with fireproof material. The seating capacity will be about 1,400. Estimated cost, $300,000. Clarence H. Blackall, 20 Beacon Road, Cambridge, is Arch. Winthrop Ames is owner.

George B. Cortelyou, Secy. of the Treasury, has submitted an estimate of $250,000 to Congress for the erection of a new Boston immigration station.

NEW YORK, N. Y.—Harry Levey has completed details for the erection of a theater and office building at the southeast corner of Broadway and 43d St., which he recently leased for 105 years. The theater, with a seating capacity of 1,100, is to be ready next October, and the office section in February, 1909. Many unique features have been planned for the theater, including an arrangement of grades which will bring the audience closer to the stage. A restaurant and stores, with direct entrances to the Subway station, will take up the street and basement floors of the office building. Victor Hugo Koehler, 489 Fifth Ave., is Arch.

Bids are asked until 3 p. m. Dec. 27, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the installation of a vacuum cleaning system for the U. S. custom-house building, New York.

NEW YORK, N. Y.—Plans have been filed for a 12-story fireproof commercial building to be erected at No. 19 to 27 West 21st St. It will be of brick with trimmings of Indiana limestone, with a frontage of 104½ ft. and a depth of 98.9 ft. Estimated cost, $350,000. Robert D. Kohn is Arch. David Spero is owner.

GENEVA, N. Y.—Arthur E. Nash, Arch., 27 E. 22d St., New York, has completed plans for a 3-story city hall for the city of Geneva. Estimated cost, $125,000.

STONY POINT, N. Y.—The State Prisons Commission, Albany, N. Y., has finally accepted a site for the proposed new state prison. It consists of 500 acres located on the west bank of the Hudson River, 40 miles north of New York and a few miles north of the present prison, in the town of Stony Point, Rockland County, and Highland, Orange County. The estimated cost, $2,000,000. The commission is now preparing to hold a competition among architects for the submission of plans and designs for the new structure. The rules to govern the competition are being decided upon and the date for receiving the designs and plans will be fixed shortly. George McLoughlin, Capitol, Albany, is Secy. Comn.

ORANGE, N. J.—Wilbur S. Knowles, Arch., 1 West 34th St., New York, has prepared preliminary plans for an addition to the St. Mary's Hospital, Orange. Estimated cost, $250,000.

EASTON, PA.—We are officially advised that bids are asked until Jan. 3, by A. A. Ritcher, Arch., Lebanon, Pa., for constructing one fireproof bank and office building of granite, concrete brick, 32 ft. × 158 ft. Banking vault and fixtures are required. Estimated cost, $180,000.

DANVILLE, PA.—Bids were received as follows by the Building Committee on Nov. 26 for erecting three buildings at the Hospital for the Insane at Danville: Mosier & Summers, Buffalo, N. Y., $252,290; Steinbach & Billmeyer, Lewistown, $286,000; Metzger & Wells, Philadelphia, $255,000; A. L. Weaver, Harrisburg, $259,997; M. P. Wells, Philadelphia, $255,000; Geo. W. Beard & Co., Reading, $282,200; Lynch Bros., Philadelphia, $256,822; J. E. & A. L. Pennock, Philadelphia, $269,447; C. H. Focht & Son, Reading, $263,596; Bennett & Woodnut, Williamsport, $269,000.

PHILADELPHIA, PA.—Bamberger Bros. & Co., 606 Chestnut St., have purchased the property at the southeast corner of Broad St. and Girard Ave., and upon the expiration of the lease on the premises will build on the site a 15-story flat house. Estimated cost, $100,000.

A permit was issued on Dec. 3 to the Richardson estate to erect an apartment house at 1722 Walnut St. The building will be 42 ft. wide and 169 ft. deep, and of fireproof construction, with the exterior walls of white marble up to the second story, and above this of light brick with terra cotta trimmings. Estimated cost, about $200,000.

Lynch Bros., Lippincott Bldg., were granted a permit to build the new Chandler Public School, at the southwest corner of Wildey St. and Montgomery Ave., for the Board of Education. Estimated cost, $124,116. The plans call for a two-story and basement building of stone and brick, measuring 152 2 by 83.10 ft. J. Horace Cook, Arch. of the Board of Education, prepared the plans. Mentioned in issue of Nov. 28.

PHILADELPHIA, PA.—The Philadelphia Turngemeinde, 429 North Sixth St., has appointed a committee to select a site for its proposed new clubhouse. Estimated cost, including site, $250,000. Robert Dockel is Chn. Com.

Plans have been prepared by Edgar W. Seeler, Arch., 1510 Real Estate Trust Bldg., and Frank C. Roberts, Engr., and estimates will be invited about the first of the year for the new 8-story, fireproof publishing house to be erected at Sixth and Sansom Sts. Estimated cost, $1,000,000. The building will cover the entire block from Sixth to Seventh Sts. and from Walnut to Sansom Sts.

WASHINGTON, D. C.—Bids were received as follows, Dec. 10, by Bernard R. Green, Superintendent of Construction of the new National Museum Building, Washington, D. C., for furnishing all the radiators required for the heating plant: American Radiator Co., Chicago, $15,500; J. L. Mott Iron Works, Home Life Bldg., Washington, $15,829; Chesapeake Supply Co., Washington, $17,887; United States Radiator Co., Dunkirk, N. Y., $15,551; H. B. Smith Co., Philadelphia, $15,500.

GREENSBORO, N. C.—The executive committee of the State Normal College have instructed Hook & Rogers, Archs., to prepare plans for the erection of a Science building. Estimated cost, $100,000. Hon. S. M. Gattis is Chn. Executive Com.

SELMA, ALA.—The Supervising Architect of the Treasury, Washington, D. C., has awarded to the KING LUMBER CO, Charlottesville, Va., contract for the construction of a post-office building at Selma, Ala., at $108,775.

TUSCALOOSA, ALA.—We are officially advised that bids are asked until noon, Dec. 13, by the Building Committee, University of Alabama, at the Governor's office, Montgomery, for the erection of new buildings. Frank Lockwood, Montgomery, is Arch. John W. Abercrombie is Pres. University.

NEW ORLEANS, LA.—Architects are invited to submit competitive plans until December 18 at office of James Knox Taylor, Superv. Arch., Washington, D. C., for erection of United States post-office and Courthouse in New Orleans. It is to cost not more than $1,200,000, exclusive of lighting fixtures, both gas and electric, and mural paintings. Main street floor to contain not less than 50,000 to 55,000 sq. ft., and accommodate several divisions of the post-office, mechanical plant, etc.; second floor to contain about 35,000 sq. ft. Commission of Award is composed of James Knox Taylor, Superv. Arch., and James Rush Marshall, 1516 H St., both of Washington, D. C., and Arnold Brunner and William Martin Aiken, both of 33 Union Square West, New York City.

The Jefferson Construction Co. is lowest bidder for the erection of City Hall Annex at $268,000, and $5,000 additional for elevator. W. J. Hardee, City Engr., has recommended acceptance of the bid.

NASHVILLE, TENN.—Plans have been prepared by Warner & Adkins, Cincinnati, Ohio, for the erection of an 8-story apartment house on the corner of West End Ave., 25th and Church Sts. Estimated cost, $250,000. G. W. Wilson, Cincinnati, is interested.

CLEVELAND, OHIO.—The Supervising Architect of the Treasury, Washington, D. C., has awarded to the JOHN PIERCE CO., 90 West St., contract for furnishing and installing the mechanical equipment at the Cleveland post-office at $129,000.

CINCINNATI, OHIO.—We are officially advised that bids are asked until Jan. 6 by J. W. Stevens, Arch., St. Paul, Minn., for one fireproof, 3-story and basement building, 300 × 300 ft., of brick, terra cotta and concrete construction. Estimated cost, $750,000.

CLEVELAND, OHIO.—The Cleveland Athletic Association, Walter C. Baker, Pres., Henry Dreher, Vice-Pres., is completing consolidation of several organizations, and proposes to erect a large clubhouse. Estimated cost, $500,000.

*EAST LIVERPOOL, OHIO.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Jan. 17, for the construction (complete) of the U. S. post-office at East Liverpool.

TERRE HAUTE, IND.—W. H. Floyd, Arch., 656½ Wabash Ave., has completed plans for a 3-story jail building for Vigo County to cost $125,000. New bids will be received by the County Auditor until Dec. 18.

PEORIA, ILL.—Reeves & Baillie, Archs., 600 F. M. C. A. Bldg., are preparing a new set of plans for a 6-story office building to contain buffet, theater and offices, for the Leisy Brewing Co. Estimated cost, $300,000.

CHIPPEWA FALLS, WIS.—T. C. Pound, Chippewa Falls, will build a 3-story pressed brick and cut stone sanitarium here. It will be of fireproof construction, having steam heating, electric lighting and modern equipment throughout. Estimated cost, $300,000.

FOND DU LAC, WIS.—C. H. Stehling, 508 Commerce St., Milwaukee, Wis., is preparing plans and will receive bids after Feb. 1 for a fireproof tannery for the Fred. Reuping Leather Co., Fond du Lac, to cost $400,000.

DES MOINES, IOWA.—We are officially advised that Proudfoot & Bird, Archs., Flynn Block, are preparing plans for the new 4-story city hall, 74 × 134 ft., of fireproof stone material, to cost $350,000. Bids will be asked in February or March.

LA MOURE, N. DAK.—Buechner & Orth, Archs., Manhattan Bldg., St. Paul, are preparing plans for a 2-story pressed brick and cut stone, fireproof court-house to be built here. It will be 100 × 170 ft., having steam heating, electric lighting, modern plumbing. Estimated cost, $100,000. E. W. Field is County Aud.

ST. LOUIS, MO.—F. C. Bonsack, Arch., Pierce Bldg., will submit plans on Dec. 16, for approval to the Board of Directors of the Coliseum Co. for the new coliseum at Washington and Jefferson Sts. It will cost $300,000. The C. L. GRAY CONSTRUCTION CO., Victoria Bldg., has the general contract.

ST. JOSEPH, MO.—The executive committee of the Board of Curators, Missouri State University, approved plans on Nov. 26 for an agricultural building to be erected on the Horticultural Grounds. Estimated cost, $100,000.

*HOUSTON, TEX.—Bids are asked until 3 p. m., Jan. 15, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, heating apparatus, electric conduits and wiring) of the U. S. post-office and court-house at Houston.

TACOMA, WASH.—Frederick Heath, Arch., 503-504 Fidelity Bldg., is preparing plans for an apartment house of fireproof construction to cost about $175,000.

EVERETT, WASH.—Bids are asked until 2 p. m., Dec. 16, by the County Commissioners for the construction complete of the annext to the Snohomish County court-house.

LONG BEACH, CAL.—A 6-story steel and concrete structure and a modern theater is planned for the Strand between Pier Place and Ocean Way by A. Parsell, C. Goodhue and Bert Paul, officers of the Strand Investment Co., and Ocean Pier Tract Co. The estimated cost of the proposed building is $200,000. It is to be designed for use as a commercial hotel.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—LINNEHAN & CO., Beverly, have been awarded the contract for laying two miles of water pipe from the Danvers Hospital grounds to Ferncroft.

CARTHAGE, N. Y.—The only bid, that of Joseph L. Young, Carthage, for the extension of water mains in Alexandria St., was rejected on Dec. 3 by the Board of Water Commissioners. New bids are asked until Dec. 16.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., Dec. 18, for furnishing, delivering and constructing gate vaults for the high pressure pumping stations located at Gansevoort and West Sts. and at Oliver and South Sts., Boro. of Manhattan.

DURHAMVILLE, N. Y.—F. C. Stevens, Supt. Pub. Wks., Albany, N. Y., has awarded to THEODORE F. KALBFLEISCH, Glens Falls, the contract for constructing the aqueduct under the Erie canal near here, at $56,093. Noted fully on Nov. 28.

CAMDEN, N. J.—Bids are asked by the Water Committee of the Camden City Council at the City Hall, Camden, N. J., until Dec. 17, for improving the present artesian water supply system and adding to the present supply of 17,000,000 gals. at least 5,000,000 gals. daily.

ATLANTIC CITY, N. J.—A complete duplicate water plant will be installed to furnish this resort with an extra supply of pure water, under the plans of Lincoln Van Glider, Supt. Water Board. He condemns the intended scheme of installing large storage reservoirs in this city and favors the building of new pumping stations and laying new mains across the 5-mile stretch of meadows from Absecon. Estimated cost, about $250,000.

*ORANGE, N. J.—Bids are asked until noon, Jan. 1, by the Common Council, for suction and delivery pipe connection of pumping engine at the Chestnut St. pumping station; also proposals for steam and feed water piping at the Chestnut St. pumping station. Willett B. Gano, City Clerk.

BALTIMORE, MD.—Bids are asked until 11 a. m., Dec. 18, by the Board of Awards for furnishing such supplies as may be required for the year ending Dec. 31, 1908, including cast-iron work, lead lined iron pipe, cast-iron pipe and fittings, brass castings, water meters, and hauling pipe, pipe fittings, etc. J. Barry Mahool is Pres. Bd. of Awards. Alfred M. Quick is Water Engr.

MACON, GA.—The Central of Georgia Ry. Co. will construct a water plant for its new shops. About one mile of piping will be laid. Steel sections of the line will be 12 ft. long and 16 ins. in diameter on the inside. It is planned to build at bank of Ocmulgee River a dry well constructed of brick, 30 ft. deep and about 30 ft. square, in which the pumping apparatus will be installed, according to the "Manufacturers' Record." Machinery will be operated by a motor, power to be furnished by the company's new power-house. A 50,000-gal. tank will be built at the shops and later a reservoir will be constructed, together with filtering plant and settling basin. Estimated cost, $30,000. C. K. Lawrence, Savannah, is Ch. Engr.

LANSING, MICH.—The contract for sinking a test well at North Lansing, the probable site of the auxiliary pumping station, was awarded to ELMER STROBE, of Mason, Mich., at $1.45 per ft., city to furnish the necessary pipe. H. A. Collar is City Engr.

GRAND RAPIDS, MICH.—Specifications for a vertical triple expansion pump of 12,000,000 gals. capacity are being prepared by A. Freshney, Gen. Mgr. Bd. Pub. Wks. Bids will soon be asked.

SAUK RAPIDS, MINN.—We are officially advised that bids are asked until 8 p. m., Dec. 27, by the village of Sauk Rapids for installing a water-works system. Oscar Claussen, 514-515 German American Bank Bldg., St. Paul, is Consulting Engr.

WICHITA, KAN.—Hiram Phillips, Consulting Engr., 615 Frisco Bldg., St. Louis, Mo., has been engaged to prepare plans for a new system of water-works.

BROOKFIELD, MO.—The citizens have voted $11,000 for the improvement of the water-works system.

DENVER, COLO.—Incorporation papers of the Antero & Lost Park Reservoir and Canal Co., capitalized for $2,000,000, have been filed with the Secretary of State. Those behind the project are Horace G. Clark, Clerk of the Supreme Court; D. B. and D. C. Wyatt, William Maher, E. J. Riethmann and George A. Starbird of Denver; S. J. Perry, P. W. Allen, Charles F. Tew and D. A. Camfield of Greeley. The company will build two dams. The larger, at Antero, will cover 4,000 acres and have a capacity of 3,000,000,000 cu. ft. of water. One branch of the South Platte River will supply the water to this reservoir. The other will be at the middle fork of the South Platte. The reservoir will be fed by the Four-Mile, High and Goose Creeks. The company will supply the High Line ditch lands and the irrigable land under the Burlington ditch.

SPOKANE, WASH.—The Board of Public Works has been instructed by the City Council to have built a $25,000 plant for the city's water supply from the underground flow, instead of from the Spokane River, as at present, in order to insure a purer supply.

SEATTLE, WASH.—We are officially advised that R. H. Thomson, City Engr., has made the following estimates for (a) laying water mains in East Olive and other streets, and (b) in Phinney Ave. and other streets: (a) $19,700; (b) $20,200.

OAKLAND, CAL.—The ordinance appropriating $40,000 for the first construction of a salt-water plant for auxiliary fire protection was signed by the Mayor on Dec. 2. The system as projected contemplates mains through the business section of the city and the utilization of the main lake sewer, a 6-ft. aqueduct connecting Lake Merritt with San Francisco Bay, traversing 22d St., and a reservoir for salt water. The whole plant is to cost about $100,000. The $40,000 appropriated is, by the terms of the ordinance, placed at the disposal of the Board of Public Works, with which to commence the construction of the pumping plant at the Willows, on the shore of Lake Merritt. Any surplus is to be used for the laying of mains. Further appropriations are to be made as the work reaches a stage at which work requiring more money can be taken up, but it is expected that fully half of the expenditures can be made to fall in the next fiscal year.

TROPICO, CAL.—At the last general meeting of the Tropico Water Co., it was decided to buy the pumping plant now owned by Dwight Griswold and the land on which it is situated, and also the large reservoir site which lies at the eastern end of Reposia Court in the eastern part of Tropico. A resolution was adopted by which it was decided to issue gold bonds to the extent of $25,000, which are to be issued about Jan. 1st. The purchasing of this pumping plant will greatly improve the water system.

*PHOENIX, ARIZ.—Bids are asked by Robt. A. Craig, Supt. Water Dept., until 4 p. m., Jan. 10, for laying cast-iron water pipe.

VANCOUVER, B. C.—Bids are asked until 4 p. m., Jan. 2, for furnishing brass goods and galvanized iron pipe. William McQueen is City Clk.

TORONTO, ONT.—At the coming municipal elections the rate-payers will vote on a by-law, providing for the expenditure of $1,000,000 for extensions to the municipal water-works plant.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

WATERBURY, CONN.—Bids are asked until Dec. 16 for the construction of a sewerage system. Estimated cost, $125,000. Robert A. Cairns is City Engr.

*WHITE PLAINS, N. Y.—Bids were received on Nov. 27 by the Bronx Valley Sewer Commission, Grand St., White Plains, N. Y., for the construction of seven sections, comprising about twelve miles of circular sewer from 3 1-3 ft. to 6 ft. in diameter, and about three miles of circular lined tunnel, mostly 6¼ ft. and 8¼ ft. in diameter, the material to be either monolithic reinforced concrete, reinforced concrete blocks or brick masonry. Frank N. Glover is Secy., Bronx Valley Sewer Comn. The contract has been awarded to the MACK PAVING & CONTRACTING CO., Land Title Bldg., Philadelphia, at about $1,800,000 for the entire work. There were 24 bids received. Full details will be given next week.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Dec. 18, by Bird S. Coler, Boro. Pres., for constructing sewers and sewer basins in various streets.

WASHINGTON, D. C.—The Commissioners of the District of Columbia have awarded the contract to E. G. GUMMEL, 309 Rhode Island Ave., Washington, for constructing sewers in Arkansas Ave., between Delafield and Emerson Sts., and in Delafield St., between Arkansas and Brightwood Aves., at $12,925.

*NORFOLK, VA.—D. L. DUFFY & CO. were awarded the contract by the Board of Control on Dec. 3 for the extension of the sewer in the Seventh Ward, at $34,075. Noted fully in issue of Dec. 5.

KNOXVILLE, TENN.—Bids will soon be asked for the construction of an extension of the First Creek sewer in the Eleventh Ward. Estimated cost, $14,000.

DAYTON, OHIO.—The following bids were received on Dec. 4, by the Board of Public Service for the construction of sanitary sewers through North Dayton, the work consisting of about eleven miles of mains and a sewerage pumping plant: John T. Reese, $72,850; Shafor & Dill, $75,590; C. F. Sullivan, $75,960; T. J. Backus Construction Co., $77,532; William Hilt, $77,850. Robert E. Kline is City Engr.

NEW PHILADELPHIA, OHIO.—This town contemplates installing a sewer system. Estimated cost, $100,000.

SPRINGFIELD, OHIO.—All bids received on Nov. 20 by F. A. Crothers, Clk. Bd. Pub. Serv., for constructing a portion of the high level intercepting sewer, were rejected. New bids are asked until noon, Dec. 18. W. H. Sieverling is City Engr.

MANSFIELD, OHIO.—The Board of Health has recommended that the sewer system be extended in the northern part of the city. Estimated cost, $7,000 to $8,000.

AKRON, OHIO.—We are officially advised that M. H. O'Toole, Akron, Ohio, was the lowest bidder on Dec. 3 for the construction of a sewer in Bloomfield Ave. C. H. Watters is Secy. Bd. Pub. Serv.

EVART, MICH.—Bids are asked by Irvin Chase, Village Clk., until Dec. 13, for the construction of a sanitary district sewer system, requiring 4,766 lin. ft. of 10, 15 and 18-in. pipe sewer, with necessary Y's and manholes.

GALVA, ILL.—The Board of Local Improvements has directed plans to be prepared for a sewer system. Estimated cost, $30,000.

BELLEVILLE, ILL.—Bids are asked until Dec. 14, by the Board of Local Improvements for constructing sewers in portions of six streets. Estimated cost, $15,000. Fred. Deutschmann, Jr., is City Engr.

SPRINGFIELD, ILL.—The contract for laying an 18-in. pipe sewer in Osburn Ave. from Dorian Ave. to North Grand Ave. has been awarded to JOHN SPENCE, Springfield, at 98 cts. per lin. ft. for 18-in. pipe, 40 cts. for 12-in. inlet pipe, and $25 for manholes, complete. Frank H. Hamilton is City Engr.

SUMMIT, ILL.—The contract for a system of sewers for the new plant of the Corn Products Mfg. Co. has been awarded to the FEDERAL IMPROVEMENT CO., 949 Rookery Bldg., Chicago, Ill., at $75,000.

FORT DODGE, IOWA.—All bids for the construction of sanitary sewers have been rejected. New bids will be asked. W. T. Evans is Town Clk.

ST. PAUL, MINN.—Bids are asked until 2 p. m., Dec. 12, by R. L. Gorman, Clk. Bd. Pub. Wks., for constructing sewers in Fairview and Hoffman Aves.

Bids are asked by the Board of Public Works until Dec. 21 for the construction of a sewer in Hoffman Ave., between Conway St. and Van Buren Ave., 295 ft. G. A. Johnson is City Engr.

OMAHA, NEB.—McCAE & CATHROE have been awarded the contract for constructing a sewer in 33d St., from Taylor to Ames Sts., and in Ames St., from 33d St. to 38th St., at $5,478. Andrew Rosewater is City Engr.

*DURANGO, COLO.—Bids are asked by Herman Berndt, Mayor, until 9 p. m., Jan. 6, for construction of three sanitary sewers in Sewer Dist. No. 1.

OAKLAND, CAL.—The contract for the construction of the east side extension sewer between East 12th St. and East Eighth St. was awarded on Nov. 27 by the Board of Public Works to C. D. VINCENT, at $8,859. Noted in issue of Dec. 5.

SALT LAKE CITY, UTAH.—Bids are asked by Board of Public Service until 8 p. m., Jan. 3, for constructing pipe sewers in sewer extension No. 191. Louis C. Kelsey is City Engr. F. J. Leonard is Chn. Bd.

JUAREZ, MEX.—Plans and specifications for a sewer system are being prepared by the City Engineer of Chihuahua, Mex. Estimated cost, $125,000.

GARBAGE DISPOSAL.

NEW YORK, N. Y.—Bids are asked until noon, Dec. 18, by Foster Crowell, Comr. Street Cleaning, for furnishing all the labor and materials required for the removal of snow and ice in the Boroughs of Manhattan and the Bronx.

ALTOONA, PA.—The date of opening of bids for collection and sanitary disposal of all city garbage for a period of 1, 3, 5 or 10 years, has been extended from Dec. 4 to Dec. 31. Samuel B. Trees is Secy. Bd. of Health.

READING, PA.—Bids are asked until Jan. 7 for the collection and disposal of garbage, for periods of 1, 2, 3 and 5 years. Elmer H. Beard is City Engr.

ST. LOUIS, MO.—Bids are asked until noon, Feb. 11, by the Board Public Improvements for furnishing all the necessary tools, labor, machinery and buildings for the reduction of garbage for a term ending Sept. 1, 1918. W. B. Dryden is Secy. Bd.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

LYNN, MASS.—Detailed plans have been prepared by Frank A. Barbour, 1121 Tremont Bldg., Boston, for the proposed abolition of the Boston & Maine R. R. grade crossings in Lynn. Estimated cost, $1,129,000, land damages excluded. H. Bissell is Ch. Engr., Boston.

RIDGEFIELD, CONN.—Bids asked until Jan. 2, by the Board of ectmen, Geo. H. Whitlock, Chn., for grading a section of road. and gravel-

ERIE, PA.—Bids are asked til Dec. 16, by the Board Public Works or repairing French St.

HARRISBURG, PA.—Bids a asked until Dec. 16, by Joseph W. Hunter State Highway Comr., for the construction of 5,280 ft. of road, 16 ft. wide, in Londo rry Township.

McCORMICK & CO. have bee warded the contract for the construction of e Paxtang Pike at $18,000.

WASHINGTON, PA.—Plans a specifications are on file at office of gineering News, New York, for improving ty roads. Bids are asked until noon, De 20. Wm. Wylie is County Engr.

BALTIMORE, MD.—The lowest d opened on Dec. 4 by the Board of Aw for resurfacing 22d St. between Oak and Cromwell Sts., with bitulithic, was submitted by John L. Robertson at $2.03 per sq. yd.

PALATKA, FLA.—We are of ally advised that the GRAVES-MATTI WS PAVING CO., Birmingham, Ala., w awarded the contract on Dec. 3 for 22,5 sq. yds. of vitrified brick paving at $1. per sq. yd., and 9,800 lin. ft. granite curb, at 40 cts. a lin. ft. J. E. Craig is City Engr. J. N. Blackwell is City Clk.

HOPKINSVILLE, KY.—The contract for building three miles of 12-ft. pike on the Bradshaw road was awarded on Nov. 19 by the Fiscal Court to the LEAVELL STONE CO., at $1,655 per mile. C. Twyman is County Engr.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Jan. 4, by the Board of County Commissioners, Cuyahoga County, for grading, draining and paving Fisher road from the city limits to the westerly line of Bedford Township, and for grading, draining and paving Dille Road from its intersection with the Lake Shore Boulevard and Gilbert Ave., to Euclid Road. A. B. Lea is County Engr. Julius C. Dorn is Clk.

LISBON, OHIO.—Bids are asked until 1 p. m., Dec. 30, by the County Auditor of Columbiana County for grading the highway leading from East Liverpool, to Lisbon, between the northern limits of the city of East Liverpool, and the northern line of Liverpool Township in said county.

COLUMBUS, IND.—C. T. NUGENT was awarded the contract on Dec. 2 by the County Commissioners for the construction of the Mahaffey road in Clifty Township, at $4,550. John M. Davis is County Audr.

BEDFORD, IND.—Bids will soon be asked by the Commissioners of Lawrence County for constructing macadamized streets and roads in and about the vicinity of Mitchell. Estimated cost, about $30,000.

MARTINSVILLE, IND.—We are officially advised that M. R. O. CAMPBELL, Frankfort, Ind., was awarded the contract on Dec. 2 by the Commissioners of Morgan County for the construction of 8,165 ft. gravel road, known as the Jones road in Jackson Township, at $5,510. B. E. Thornburg is County Audr.

GREENCASTLE, IND.—The contract for improving 16,371 ft. of road in Jackson Township (bids opened Nov. 30) has been awarded to JAMES M. STEWART, Roachdale, at $9,500. C. C. Hurst is County Audr.

FORT WAYNE, IND.—The contract for the construction of a stone road in Madison and Clyde townships has been awarded to WILLIAM BUCHANAN at $7,650. F. Randall is City Engr.

LOGANSPORT, IND.—The Commissioners have awarded the contracts to build gravel roads in Cass County, as follows: McClain road, in Washington Township, 2½ miles in length, to CARNEY & WILBURN, at $7,500: No. 1 and No. 3 division of the Briggs road to FRANK JUSTISE, at $4,899 and $3,373, respectively; No. 2 division to SMITH & PALMER, $2,650.

CADILLAC, MICH.—Bids may soon be asked for paving with brick, bitulithic and concrete about 23,888 sq. yds.

GRAND RAPIDS, MICH.—The contract for paving the Ann St. bridge has been awarded to the WYCKOFF WHITE CREOSOTE CO., Stamford, Conn., at $4,728.

LA SALLE, ILL.—KEYES & McNAMARA have been awarded the contract for paving Wright St., between Fifth and Eleventh Sts., at $25,000. E. Noonan is City Engr.

SPRINGFIELD, ILL.—The contract for paving Rutledge St. from Carpenter St. to Miller St. has been awarded to JOHN BRETZ, Springfield, at $1.67 per sq. yd. for paving, and 54 cts. per lin. ft. for stone curb.

LITTLE ROCK, ARK.—Bids are asked until Jan. 2, by Gerhard Morgner, Engr. in Charge, Road Improvement District No. 1, at the office of Road and Bridge Commissioner of Pulaski County for the improvement and construction of West 12th St. from the city limits to a point on Mount Ida road, a distance of 19,683 ft. Charles Heckler, F. Kanis and Adam Penzel are the Bd. Directors, Road Improvement District No. 1.

OLYMPIA, WASH.—Bids are asked until 10 a. m., Dec. 14, by the State Highway Board for grading State Aid Road No. 4, known as the East Trunk Road, in King County. Joseph M. Snow is Secy. Bd.

SEATTLE, WASH.—We are officially advised that R. H. Thomson, City Engr., has made an estimate of $27,300 for grading Bagley Ave.

SPOKANE, WASH.—Bids are asked until 2 p. m., Dec. 23, by the Board Public Works for the construction of a roadway across East Sprague Ave., from the west line of Ivory St. to a point 774 ft. westerly therefrom.

TACOMA, WASH.—ADDISON & HILL have been awarded the contract for grading South 56th St. and portions of South 54th St. and Railroad St., at $25,025.

SAN FRANCISCO, CAL.—The Board of Supervisors on Nov. 25 passed the ordinance providing for an appropriation of $50,000 for the repair of bituminous and asphalt streets.

SANTA MONICA, CAL.—Bids will probably be received about Feb. 15 for paving about 2 [illegible] sq. yds. asphaltum, with concrete base, including grading and cement curb. Estimated cost about $6,000.

*SALT LAKE CITY, UTAH.—Specifications are on file at office of Engineering News, New York, for grading, curbing and paving First South St. Louis C. Kelsey is City Engr.

TORONTO, ONT.—The City Engineer has recommended that pavements be laid as follows: On Harriet St., with asphalt; estimated cost, $4,305. Murray St. from Caer-Howell to Orde Sts., with bitulithic; estimated cost, $4,954. Jones Ave., from Gerrard St. to Gerrard St. with brick; estimated cost, $18,607. Wallace Ave., from Dufferin St. to Lansdowne Ave., with brick; estimated cost, $14,448. Leslie St., from Queen St. to Gerrard St. with brick; estimated cost, $9,030. Leslie St., from Doel Ave. to north side of Gerrard St. with brick; estimated cost, $9,764. Carlaw Ave., from Eastern Ave. to a point 1,034 ft. south with brick; estimated cost, $7,573. Colborne St., from Church St. to West Market St., with vitrified block; estimated cost, $3,-853. C. H. Rust is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

BUFFALO, N. Y.—The Pullman Co. will at once rebuild the 24-stall painting and finishing shop at its Buffalo plant, which was completely destroyed by fire on Dec. 2. The loss on the burned building was about $100,-000, and on contents of 22 sleepers, $400,-000. H. E. Benson, Mgr. Pullman shops, Buffalo, will have charge of the work of rebuilding the shop.

BALTIMORE, MD.—The Crook-Horner Co., machinists and machinery supplies, 301 North Howard St., has awarded contract to THOMAS L. JONES & SON, 410 West Saratoga St. for remodeling 5-story warehouse at 17-19 East Pratt St. and construction of 1-story steel frame building, 50 × 125 ft., with corrugated iron sides. Ellicott & Emmart are Archs., Union Trust Bldg.

A 4-story factory building is to be erected in Highlandtown (suburb of Baltimore) by the Continental Can Co., 8 Light St., Baltimore. Brick, mill construction, slag roof; modern tin-can manufacturing machinery. Wyatt & Nolting, Archs., Keyser Bldg., Baltimore.

WASHINGTON, D. C.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded contracts for laundry equipment as follows: Washington Naval Hospital, AMERICAN LAUNDRY MACHINERY MFG. CO., 132 West 27th St., New York, $3,150. Naval Medical Hospital, New Fort Lyon, Colo., TROY LAUNDRY MACHINERY CO., 33 Warren St., New York, $2,800. List of bidders was given on Nov. 21.

GLADWYNE, VA.—The firm of Booth & Bro., Roseglen Mill, Gladwyne, has been incorporated with a capital stock of $50,000. The company manufactures yarns for velvet, Axminster carpets and rugs and has eight sets of cards and 1,512 spindles.

WELCH, W. VA.—The Welch Ice & Cold Storage Co. is reported to have awarded contract to E. C. GREER, Williamson, W. Va., and M. E. LONG, Huger, W. Va., for concrete foundation work on ice and cold-storage plant. Structure will be 120 × 74 ft. Contract for superstructure has not been awarded. I. J. Rhodes, R. B. Bernheim and others of Welch, and the J. M. McCoach Co., Huntington, W. Va., are the organizers of the company.

GASTONIA, N. C.—The Dunn Mfg. Co. may increase its equipment by 5,000 spindles for manufacture of cotton yarns. C. B. Armstrong is Pres.

DALTON, GA.—The Elk Spinning Mill Co., of Dalton, may double the capacity of its plant.

GORDON, ALA.—The R. L. Beasley Steam Stump Puller Co. contemplates expending about $50,000 for buildings and machinery for plant, as noted on Nov. 21. Daily output is to be five steam stump pullers and 10-HP. stump wringers. Company may buy equipment for building hoisting engines or complete plant already established.

MONTGOMERY, ALA.—The Worswick-Haardt Harvester Co. has been incorporated with $300,000 capital stock to manufacture cotton harvesting machinery and implements, motors, tools, etc., making a specialty of the manufacture of the cotton picker invented by James Worswick. Incorporators are J. E. Worswick, George P. Haardt, A. N. Kennedy and others.

VIDALIA, LA.—The St. Paul Mill & Elevator Co., S. J. McKenzie, Pres., St. Paul, Minn., may establish plant in Vidalia at a cost of $25,000. The town has donated the site for proposed plant.

HUMBOLDT, TENN.—The Trenton Machine Works & Supply Co., Trenton, Tenn., and the Humboldt Machine Works, Humboldt, will be consolidated as the Humboldt Machine Works. Equipment of Humboldt plant will be increased and gasoline engines and boilers will be manufactured in addition to regular machine work. H. A. Watson and H. Baumgartner, formerly of Trenton, Tenn., and W. M. Bunton, formerly of Jackson, Tenn., are interested.

CINCINNATI, OHIO.—The Triumph Electric Co. has secured a site in Oakley (Cincinnati), and is having plans prepared by Bert L. Baldwin & Co., Archs., 73 Perin Bldg., for several factory buildings.

CHICAGO, ILL.—Raeder & Wood, Engrs. and Archs., 77 Jackson Boulevard, Chicago, have taken bids on a machine shop for the Chicago House Wrecking Co., of Chicago. It will be 60 × 300 ft. and so constructed as to admit carrying three additional floors above for warehouse purposes.

ST. CHARLES, MO.—The American Car & Foundry Co., St. Louis, Mo., has had plans prepared by J. Haines, Ch. Engr., for repair shop of brick and stone to cost $10,000.

RUSSELLVILLE, ARK.—Cannery will be erected at this place and at other places in the Arkansas peach belt. Wm. Chesterfield is managing director of company that has contract. Total cost will be about $75,000.

HOUSTON, TEX.—Edw. C. Hart, 125 East 56th St., Chicago, Ill., contemplates contracting for the manufacture of pumps. Southern manufacturers in irrigated territory will be given preference.

OKLAHOMA CITY, OKLA.—The Oklahoma Carriage Co., 314 West California St., will build 2-story brick or concrete factory for manufacturing transfer and livery equipment. Building will be 75 × 130 ft. Cost, $20,000.

The Oklahoma City Steel & Iron Works, which was recently incorporated with $10,-000 capital stock by H. M. Little, 1106 Main St., Oklahoma City, H. F. Mitchell and Lewis Althoff, both of Kansas City, Mo., will erect a 1-story structural steel plant in Oklahoma City, we are officially advised. It will be 50 × 200 ft. and will cost $10,000. The equipment will cost $10,000. Date for letting contracts has not been decided.

TACOMA, WASH.—The Carmen Mfg. Co. is considering the erection of another furniture factory building at H and 25th Sts., to be four stories high, of brick. Estimated cost, $30,000.

SAN BERNARDINO, CAL.—The contract for the construction of a machine shop at San Bernardino for the Atchison, Topeka & Santa Fe Ry. Co. has been let to CARL LEONARDT, of Los Angeles. It will cover an area 120 × 500 ft., which is over twice the size of the present shop.

LOS ANGELES, CAL.—The Duquesne Brewing Co. will erect a 4-story brick and steel brewery structure to cost $75,000, and a 2-story brick building for a bottling works establishment to cost $20,000. The buildings are to be erected at East Main and Albion Sts. Callaghan Byrne is Pres. of the Duquesne Brewing Co., and among the directors are Eugene Germain, Ralph Moss, D. R. Torrence and A. K. Martell. The corporation is capitalized for $500,000. Mr. Martell will be the Gen. Mgr. of the new brewery.

VANCOUVER, B. C.—A steam laundry, in place of the old Pioneer, will shortly be erected by D. M. Stewart. The new building will be 75 × 120 ft., two stories high, fireproof. It will cost about $30,000.

CALGARY, ALTA.—The Dominion Match Co. has been incorporated here with a capital of $175,000 and will erect a match, broom and pail factory in this city next spring.

FORT WILLIAM, ONT.—The Fort William Car Co. has been incorporated with a capital of $1,000,000 to build various kinds of railroad cars. Large shops will be erected here at once. The provisional directors are: H. E. Borradaile, John Herbert Redpath, and John A. McKay. Frank Harold Lewis is Mgr., and Wilfred Bovey, Atty., all of Montreal, Que.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

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*DUMP SCOWS.—Wilmington, N. C.—Bids are asked until noon, Jan. 10, by Capt. Earl I. Brown, Corps Engrs., U. S. A., for two 6-pocket bottom dump scows.

SUBWAY.—Portland, Me.—Plans have been prepared by Theo. L. Dunn, Ch. Engr. of the Maine Central R. R. Co., Portland, for a subway at the Union Station.

TENDERS.—Paducah, Ky.—Bids are asked until 11 a. m., Dec. 27, by Maj. Wm. W. Harts, Corps Engrs., Nashville, Tenn., for building two wooden hull steam tenders.

TRESTLE.—Hosmer, B. C.—C. J. DIGBY, Fernie, B. C., has the contract for a ¼-mile trestle to connect the Pacific Coal Co.'s incline with the tipple. Over 500,000 ft. if lumber will be required for the work.

STEAMER REPAIRS.—New York, N. Y.—Bids are asked until 11 a. m., Dec. 16, by John V. Coggey, Comr. Dept. Correction, for furnishing all the labor and materials required for repairs to steamer "Minnahanonck."

DREDGING, BULKHEAD.—Newport, Cal.—The Pacific Electric Land Co., of Santa Ana, Cal., has asked the City Council of Newport for a permit to construct a bulkhead. It is stated that with dredging a 1,000-ft. channel would be made.

GUARD RAILING.—Cleveland, Ohio.—Bids are asked until Dec. 18, 11 a. m., by the Cuyahoga County Board of Commissioners for the construction of standard guard railing on the Brecksville road in Brecksville township. Julius C. Dorn, Clk.

VACUUM CLEANING.—New York, N. Y.—Bids are asked at the office of James Knox Taylor, Supervr. Arch., Treasury Dept., Washington, D. C., until Dec. 27, for the installation of a vacuum cleaning system for U. S. Custom Building at New York.

DOCKS, ETC.—Mobile, Ala.—The Mobile & Ohio R. R. Co., we are officially advised, has temporarily abandoned the plan to erect bulkhead, docks, new trackage, etc., on the river front, north of St. Anthony St., Mobile, until financial conditions improve. R. V. Taylor is Gen. Mgr., Mobile.

DAM.—Pittsfield, Mass.—Barnes & Spaulding, Engrs., of Pittsfield, are drawing plans for a new dam to be built by the Berkshire Life Insurance Co. at the Van Sickler mill on lower Appleton Ave. The structure will be of reinforced concrete, 80 ft. long, 12 ft. high at the center and will cost about $10,000.

STAMP MILL.—Rhyolite, Nev.—The Homestake King Consolidated Mining Co. has let a contract to the COLORADO IRON WORKS for a 100-ton mill. The process of extraction will be amalgamation and cyanide. The mill is to be finished April 1. A. G. Cadogan is Mgr. of the mining company.

LEVEE.—Fresno, Cal.—Bids were received on Dec. 2 by Board of Supervisors of Fresno County for the construction of a levee for an approach to the south end of Skaggs Crossing bridge. Contract was awarded to J. E. MITCHELL and R. D. ROBINSON, at $2,075. Scott McKay, Fresno, is Engr.

*MARGINAL CONDUIT.—Boston, Mass.—Bids are asked until 2.30 p. m., Jan. 6, by the Charles River Basin Commission, 367 Boylston St., for building Section 6 of the Boston marginal conduit and Section 4 of the Boston embankment. Plans and specifications are on file at office of Engineering News, New York.

TELEPHONE SYSTEM.—Houston, Tex.—The Houston Home Telephone Co. will soon commence work of construction of proposed automatic telephone system. S. D. Levings of McMeen & Miller, Consult. Engrs., Monadnock Bldg., Chicago, Ill., who have contract to superintend work, has prepared general plans and estimates cost of construction at $646,746.

STEEL SHEDS.—New Orleans, La.—A. C. Bell, Engr., 606 Hibernia Bank Bldg., New Orleans, has prepared plans and specifications for steel sheds on the river front for the Board of Port Commissioners. Concrete, structural steel, sheet metal work, lumber and roofing material will be required. T. H. McChesney is Secy. Bd. Estimated cost, $130,000. Noted on Nov. 7.

WHARF.—Berkeley, Cal.—The ATLANTIC, GULF & PACIFIC CO., Monadnock Block, San Francisco, Cal., was awarded contract on Nov. 25 for building municipal wharf at Berkeley, at $74,550. Noted fully on Oct. 10. The other bidders were the Burrell Construction Co., $73,735; Cotton Bros., $79,765; Mercer-Frazer Co., $82,634; Pacific Construction Co., $75,962; Healy-Tibbitts Construction Co., $76,889.

CONSERVATORY.—Tacoma, Wash.—Bids were received Dec. 2 by I. Jay Knapp, Arch., for construction of a steel frame conservatory to be built for the Metropolitan Park District, in Wright Park. Estimated cost, $10,000. Equipment required will include bent glass, plain glass, ventilating apparatus for operating sashes, hot-water heating (oil burning), concrete foundation, reinforced concrete floors.

CROSS-TIES.—Charleston, S. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until Dec. 17 for furnishing at Navy Yard, Charleston, S. C., 1,500 cypress cross-ties. Applications for proposals should refer to Schedule 587. Blank proposals furnished on application to Navy Pay Office, Charleston, S. C., or to the Bureau. E. B. Rogers, Paymaster-Gen., U. S. N.

DREDGING.—Galveston, Tex.—Bids were received on Nov. 21 by Capt. John C. Oakes, Corps Engrs., U. S. A., for dredging a channel through Turtle Cove, connecting Aransas Pass with Corpus Christi. There are about 825,000 cu. yds. to be excavated. The bidders were: Bowers Southern Dredging Co., 14 cts. per cu. yd.; North American Dredging Co. of San Francisco, 14¾ cts.; Home Dredging Co. of Mobile, 14⅞ cts.

JETTIES.—Cold Spring, N. J.—Contract for the jetty work at Cold Spring Inlet, near Cape May, N. J., bids for which were opened on Oct. 8, has been awarded to the SEA-COAST CONSTRUCTION CO., New York, at the company's bid of $614,600. The contract has been sent to Washington for approval. The jetty construction is part of the $1,300,-000 harbor the Government intends to build at Cold Spring Inlet. List of itemized bids were given on Oct. 10.

RUBBER FIRE HOSE.—New York, N. Y.—Bids were received by Francis J. Lantry, Fire Comr., on Nov. 20, for furnishing and delivering (A) 5,000 ft. of 3½-in. rubber fire hose for fireboats. Also for furnishing and delivering (B) 2,000 ft. of 2½-in. rubber fire hose for fireboats. Contract (A) was awarded to the CONTINENTAL RUBBER WORKS, 43 Murray St., New York, at $2.55 a ft.; (B) to the MANHATTAN RUBBER MFG. CO., 18 Vesey St., New York, at $1.30 a ft.

DRY DOCK.—Brooklyn, N. Y.—The controversy between the government and the contractor for the new dry dock at the Brooklyn navy yard has finally been settled by the cancellation of the contract. New proposals will be invited by the Bureau of Yards and Docks for completing the work, to be based on the original plans and specifications. The new proposals are to be opened Jan. 18. The work covered by the original contract is about 15% completed. The original contract price was $757,800.

PIPE, BRICK, ETC.—Baltimore, Md.—Bids are asked until 11 a. m., Dec. 18, by the Board of Awards, J. Barry Mahool, Pres., for furnishing and delivering to the Water Board such supplies as may be required for the year ending Dec. 31, 1908, including lumber, wood, oils, brick, cement, cast iron work, lead-lined iron pipe, cast iron pipe and fittings, brass castings, feed, rubber and packing, paints, waste, tools, and water meters, and hauling pipe, pipe fittings, etc., for the year 1908. Alfred M. Quick, Water Engr.

ORDNANCE.—Washington, D. C.—Contracts were awarded by the Navy Department on Dec. 5 for supplying about $150,000 worth of ordnance material. Among the contracts let were the following: For 2,000 5-in. 50-caliber forged steel shells at $7.55 each, to the BETHLEHEM STEEL CO. For 50,000 3-in. 50-caliber forged steel shells at $2.14 each, to the AMERICAN & BRITISH MANUFACTURING CO. For 15,000 3-in. 50-caliber target shells at $1.61 each, to the UNITED STATES RAPID FIRE GUN & POWDER CO.

TUNNEL.—Tacoma, Wash.—DIBBLE & HAWTHORNE, of Tacoma, have contract for first section of the Union Pacific R. R. Co.'s tunnel in Tacoma. Estimated cost of the actual construction of the tunnel is placed at $3,000,000. It is to be 8,700 ft. in length. About 460,000 cu. yds. of earth will be excavated. H. F. Baldwin, Ch. Engr. of the Oregon & Washington R. R. (Union Pacific), is Engr.-in-Charge, at Tacoma.

MISCELLANEOUS SUPPLIES.—Washington, D. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., until Dec. 17 for electrical supplies, including 15,-000 ft. steel enameled conduit, at New York; 100 arc lamps and three 175-KW. transformers, at Boston; and 46,700 c. p. Cooper-Hewitt lamps and one triplex electric pump, at Washington. For lumber, as follows: 8,000 ft. B. M. mahogany, 45,000 ft. B. M. yellow pine, 235,000 ft. B. M. North Carolina pine, and 100,000 ft. B. M. white pine, at Norfolk, Va. Also angles, copper, steel, etc., and hardware.

*LOCKS AND DAMS, ETC.—Mobile, Ala.—Bids were received by Maj. H. Jervey, Corps Engrs., U. S. A., on Nov. 25, for constructing locks and dams Nos. 14 and 15, Black Warrior River, Ala.; also for constructing lock tenders' houses. The bidders were: Lock 14—Dravo Construction Co., Pittsburg, $330,-223; Lane Bros. Co., Lynchburg, Va., $339,-947. Lock 15—Dravo Construction Co., $360,-137; Lane Bros. Co., $363,084. The firms also submitted bids for the construction of the lockhouse at each lock, the Dravo Co. placing a bid of $3,000 and Lane Brothers Co., $2,525. The total construction work will amount to $693,395. Noted last week.

*JETTY WORK.—Galveston, Tex.—Bids were received on Nov. 21 by Capt. John C. Oakes, Corps Engrs., U. S. A., for jetty work at Aransas Pass, Tex, as follows: (Bids were based on following quantities: 80,000 tons riprap, 23,000 tons crushed stone, 10,000 lin. ft. of railroad trestle and railway complete and 6,000 ft. of transfer wharves.) Daniel M. Picton, Galveston, Tex., riprap, $3.50 per ton; stone, $3.47 per ton; track and trestle, $6.35 per foot; wharf, $2.10 per foot. William S. Osgood (Christie & Lowe, of Chicago), riprap, $3.80; stone, $4.90; track and trestle, $6; wharf, $2.30. Charles Clarke & Co., riprap, $4; stone, $5; track and trestle, $6.75; wharf, $2.20.

VILLAGE.—Baltimore, Md.—J. E. Laferty, Arch., 11 East Pleasant St., Baltimore, will prepare plans for the building of the new village by the Forestglen Land Co., which a few months ago purchased a tract of 140 acres in the northwestern suburbs and will thoroughly develop it. The enterprise is one of the biggest of its kind ever started in the suburbs of Baltimore, and when all of the improvements proposed are carried out the expenditure is expected to represent an outlay of about $5,000,000. The property of the company, which has been named Forestglen, is surrounded on all sides by high-class development. It is bounded on the east by Forest Park, on the north by West Forest Park, on the northwest by Howard Park, and on the south by Windsor Hills. The officers of the company are: Pres., B. Wood Burch; Vice-Pres., Robert Burton; Secy.-Treas., R. Guy Cochran; Directors, Henry W. Williams, A. Roszell Cathcart, H. H. Haines, Charles F. Behrens, W. J. Lawder, of Washington; Robert Burton, B. Wood Burch, Ralph C. Lupton, of Delaware; Edwin L. Tunis.

U. S. POSSESSIONS AND CUBA.

HOISTING ENGINES.—Panama.—The Isthmian Canal Commission has awarded contract for furnishing ten hoisting engines for the Canal Commission to the LENHER ENGINEERING CO., 39 Cortlandt St., New York, at $11,780.

SUPPLIES.—Panama.—Bids were received Dec. 7, at Isthmian Canal Commission, Washington, D. C., for miscellaneous supplies, as follows: 30,000 sheets corrugated-iron roofing and 10,000 lin. ft. ridging—J. B. Kendall, 485 Missouri Ave., Washington, $29,528; U. S. Steel Products Export Co., 24 State St., New York, $28,380; Youngstown Sheet & Tube Co., Youngstown, Ohio, $30,711, $24,946; R. C. Hoffman Co., Baltimore, $26,400, $29,-542; Motley, Green & Co., 66 Broad St., New York, $24,547.

110,000 yds. wire screen cloth—New Jersey Wire Cloth Co., Trenton, N. J., $48,125; W. S. Tyler Co., Cleveland, Ohio, $57,400; New Freedom Wire Cloth Co., New Freedom, Pa., $41,552.

15,000 ft. extra-heavy wrought-iron pipe, 6-in. and fittings—James B. Clow & Sons, 342 Franklin St., Chicago, $17,246; Cuyler & Mohler, Baltimore, $18,428; Mark Mfg. Co., Box G, Chicago, $16,275 (pine only); Pancoast, Rogers & Richards, 28 Platt St., New York, $16,541; Youngstown Sheet & Tube Co., Youngstown, Ohio, $13,800, $14,250 (pipe only); U. S. Steel Products Exports Co., New York, $15,446; Charles Bond Co., 520 Arch St., Philadelphia, $19,725; Cornell & Underhill, 47 Beach St., New York, $17,444; E. F. Keating Co., 453 Water St., New York, $17,384; Motley, Green & Co., 66 Broad St., New York, $16,844.

229 coils manila rope, plain laid, ⅝-in. to 3-in., and 8,400 ft. towing cable, 2½-in.—George C. Carpenter Co., Chicago, 11.5 and 12.5 cts. per lb.; Hibbard Spencer, Bartlett Co., 1 State St., Chicago, 12.6 and 13.6 cts. per ft.; J. B. Kendall, 483 Missouri Ave., Washington, D. C., $14,532; Plymouth Cordage Co., North Plymouth, Mass., $14,505; Wall Rope Works, New York, $13,900; D. P. Winne Co., New York, $14,058; American Mfg. Co., New York, $13,150; Manning, Maxwell & Moore, 85 Liberty St., New York, $13,493; Manhattan Supply Co., New York, $14,804.

CONTRACT PRICES.

STRUCTURAL STEEL WORK.—Washington, D. C.—Bids were received on Nov. 27 by Elliott Woods, Supt., U. S. Capitol Bldg. and Grounds, Washington, for steel framing for the roof of the Senate Office Building, as follows: (A) The Phoenix Iron Co., 410 Walnut St., Philadelphia, Pa., $24,339; (B) Brown-Ketcham Iron Works, Indianapolis,

Ind., $24,750; (C) The American Bridge Co., Baltimore, Md., $24,950; (D) The Baltimore Bridge Co., Baltimore, Md., $27,400; (E) McClintock-Marshall Construction Co., Pottstown, Pa., $27,460; (F) Strobel Steel Construction Co., Chicago, Ill., $28,000; (G) J. B. & J. M. Cornell Co., New York, N. Y., $28,800; (H) Heckscher, Ward & Olcott, Receivers for Milliken Bros., Inc., New York, N. Y., $31,700; (I) Belmont Iron Works, Philadelphia, Pa., $34,124.

Schedule of unit prices submitted by bidders. Note: (aa) indicates price per lb. for plain shapes; (bb) indicates price per lb. for shapes, punched, web or flange; (cc) indicates price per lb. for shapes punched, web and flange; (dd) indicates price per lb. for shapes punched and fitted, web or flange; (ee) indicates price per lb. for shapes punched and fitted, web and flange; (ff) indicates price per lb. for curved shapes, rotunda.

Bidders.	Unit prices, per lb., cents (aa)	(bb)	(cc)	(dd)	(ee)	(ff)
(A)..	1.94½	2.09½	2.19½	2.37½	2.37½	3.44½
(B)..	1.96	2.14	2.24	2.65	2.75	3.77
(C)..	1.845	2.095	2.195	2.295	2.395	4.00
(D)..	2.00	2.26	2.29	2.43	2.46	4.20
(E)..	2.20	2.40	2.50	2.70	2.75	4.00
(F)..	2.25	2.50	2.75	2.75	2.75	3.50
(G)..	2.53	2.65	2.70	2.75	2.80	3.45
(H)..	2.00	2.30	2.35	2.50	2.50	5.00
(I)..	2.25	2.40	2.50	2.60	2.60	10.00

LOS ANGELES, CAL.—Bids were received on Nov. 25 by the Board of Public Works, for the construction of a reinforced concrete bridge across Arroyo de los Posos at Macy St. Horace B. Ferris is Secy. Bd. Homer Hamlin, City Engr. H. G. Parker, Engr.-in-Charge of bridge design and construction. The itemized bids and bidders were as follows: (A) Union Iron Works, Los Angeles, Cal.; (B) Mercereau Bridge & Construction Co.; (C) F. O. Engstrum Co.; (D) C. Leonardt; (E) W. N. Concanon; (F) Atlantic, Gulf & Pacific Co.; (G) Robt. Beyrle; (H) Midland Bridge Co.:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
380 cu. yds concrete, Class A	$10.60	$7.00	$9.45	$10.00	$9.75	$11.00	$12.50	$12.10
1,401 cu. yds. concrete, Class B	8.50	7.00	8.40	9.00	9.75	9.00	11.75	12.10
1,870 cu. yds. concrete, Class C	7.40	7.00	7.90	8.50	8.65	9.00	11.00	10.70
1,073 cu. yds. concrete, Class D	6.75	7.00	7.90	8.25	8.25	9.00	10.50	15.88
Steel rods in place	5,850.00	10,000.00	8,448.00	7,560.00	5,875.00	5,000.00	6,110.00	9,294.00
Arch centers	6,740.00	12,215.00	7,594.00	7,595.00	8,296.00	11,900.00	4,900.00	7,320.00
150 sq. yds. surface wash finished	0.30	1.00	0.30	0.55	0.50	0.40	0.35	0.50
178 sq. yds. surface tool finished	0.70	2.00	1.50	0.75	1.00	0.80	0.65	1.00
5,470 cu. yds. spandrel filling	0.35	0.45	0.60	0.50	0.50	0.17	0.50	0.30
Total	$51,787	$58,313	$58,330	$59,352	$59,639	$61,407	$67,074	$77,215

CIVIL SERVICE EXAMINATIONS.

MECHANICAL DRAFTSMEN.—New York, N. Y.—The Municipal Civil Service Commission, 299 Broadway, will hold an examination on Jan. 14, at 10 a. m., for the positions of mechanical draftsman (electrical, heating and ventilating, sanitary) and junior mechanical draftsman. Applications will be received until Dec. 24, 4 p. m. The percentage required is 75 on the technical paper, and 70 on all. Vacancies occur frequently. Salary, mechanical draftsman, $1,200 a year and up; junior mechanical draftsman, $600 a year and up. Candidates for mechanical draftsman must be not less than 21 years of age. Candidates for junior draftsman must be not less than 18. F. A. Spencer, Secy.

CIVIL ENGINEER AND SUPERINTENDENT OF CONSTRUCTION.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Jan. 8-9, to secure eligibles from which to make certification to fill a vacancy in the position of civil engineer and superintendent of construction, at $1,500 a year, in the Quartermaster's Department at Large, at each of the following-named places, and vacancies requiring similar qualifications as they may occur in any branch of the service: Cheyenne, Wyo., for duty at Fort D. A. Russell, Wyo.; Fort Hunt, Va., for duty also at Fort Washington, Md.; New London, Conn. (2 vacancies); Fort Dade, Fla., for duty at Forts Dade and De Soto, Fla.; Fort Sill, Okla.; Fort Hancock, N. J.; Fort Des Moines, Iowa; Whipple Barracks, Prescott, Ariz.; Fort Monroe, Va. Applicants whose applications show that they have not had sufficient training and experience to entitle them to a rating of at least 70% on this subject will not be admitted to the examination. The Department states that appointees in this position must have had, in addition to a good scientific education, some practical experience in the branches of civil engineering covering construction of roads, laying out of grounds, sewer and water lines, concrete walks, etc., and especially in building construction. The duties required of appointees are so important that men, howeved well grounded in theory and office work, cannot perform them satisfactorily unless they have had practical experience as builders, contractors, or supervisors of the class of work done under the direction of the Quartermaster's Department. Age limit, 20 years or over. Application Form 1312.

ENGINEERS.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Jan. 8, to secure eligibles from which to make certification to fill the following-named vacancies, and vacancies as they may occur in the Indian Service in the engineering positions indicated below: Engineer, $720 a year, Mescalero Agency, N. Mex. The person to be appointed to this position should be qualified to operate steam engines, boilers, pumps, dynamos and electric light apparatus. Engineer, $720 a year, Zuni School, N. Mex. The person appointed to this position should be qualified to operate boilers, steam engines and pumps. Engineer, $720 a year, Riverside School, Okla. The person appointed to this position should be qualified to operate steam engines, boilers, pumps, a steam-heating plant, etc., and should have had experience in the management of electric light apparatus. Assistant engineer, $720 a year, Salem School, Ore. The person appointed to this position should be qualified to operate boilers, steam engines, pumps, dynamos and electric light apparatus, and a steam-heating plant. Owing to the widely varying conditions in the various schools and agencies of the Indian Service general engineering examinations will be given under separate branches. An applicant may take one or more than one of these in his discretion. The prospects of appointment will be increased by successfully passing more than one of the branches indicated. Applicants should fully indicate in their applications the particular branch or branches in which they desire to be examined, and should state as definitely as possible the experience they have had which would tend to qualify them in the branches selected. Salaries, $480 to $1,000 a year. The majority of the appointments, however, are made at salaries of $720, $840, and $900 a year. Age limit, 20 years or over on the date of the examination. Application Form 1003.

CLERKS, TEACHERS.—Philippines.—The U. S. Civil Service Commission announces an examination on Dec. 27-28, to fill a large number of vacancies in the positions of clerk and teacher in the Philippine Service. It is desired to secure as a result of this examination as many eligibles as possible who are college graduates, including graduates of polytechnic and agricultural schools. It is also desired to secure as many eligibles as possible who are normal school graduates. There are at least 300 vacancies in the position of teacher to be filled, and appointments to that position as a result of this examination, except in special cases, will be made at $1,200 a year. While some appointments may be made at $1,000 or $1,100, the majority of those selected will be appointed at $1,200. Those appointed will be eligible for promotion up to $2,000 per annum for teacher, and from $1,600 to $3,000 for division superintendent. Eligibility in the assistant examination is required for promotion to division superintendent. The work of the American men teachers is largely of a supervisory character, and the higher positions are filled as vacancies occur by the promotion of those who have demonstrated their efficiency and ability in the service. The majority of those qualifying in the assistant examination who are willing to accept appointment as teacher are selected. An insufficient number of eligibles was secured from the recent examination. It is anticipated that appointments of eligibles resulting from this examination will be made to the position of teacher in March and April next and their transportation arranged with a view to their arrival in Manila about June 1, 1908, the beginning of the school year. Others will be required in the various clerical and administrative offices in the Islands. The majority of appointments of eligibles resulting from the assistant examination are made at the entrance salary of $1,200. Each college student who will be graduated in 1908 should state in his application the degree he expects to receive. Men only will be admitted to this examination. Age limit, 18 to 40 years on the date of the examination.

INDUSTRIAL NOTES.

E. L. CHAUVIN, J. E. MILLIKIN, C. E., & W. C. McGRORY have opened offices in the Link Bldg., Orange, Texas, as General Contractors, having as specialties the construction of brick and stone buildings, sidewalks and sewerage.

THE ALLIS-CHALMERS CO., Milwaukee, Wis., has engaged for its office in St. Louis, Mo., a new suite of offices located at 1302-1304 Third National Bank Bldg., where the Company's District Manager, F. L. Bunton, will take charge after January 1, 1908.

THE TWIN CITY EQUIPMENT CO., Philo. W. Jones, President and Manager, reports that it has purchased two acres of land at Minnesota Transfer, midway between Minneapolis and St. Paul, and will erect shops for the repair of contractors locomotives and steam shovels and other equipment and lumbering machinery.

GOFF, HORNER & CO., LTD., with offices in the Frick Building, Pittsburg, Pa., have been awarded the sole sales agency for the United States for the Cummings system of concrete reinforcement. Mr. A. C. Kuester, formerly with the Scofield Co., contractors, of Philadelphia, has charge of this department for Goff, Horner & Co.

THE LAKE SHORE & MICHIGAN SOUTHERN RAILWAY recently purchased a 250-KW. Allis-Chalmers engine type generator, 240 volts, 2-phase, 60-cycle and a 15-KW. exciter unit for addition to the power equipment of the Chicago, Indiana & Southern Ry. Co., a subsidiary line. The new generator will be installed at Danville, Ill.

THE WILE POWER GAS CO. states that it has removed its general offices from Cutler Bldg., Rochester, N. Y., to the works, 1688-92 Columbus Road, Cleveland, O., where all communications in future for complete gas power plants, including gas engines and gas producers for gas power and fuel purposes should be addressed.

PARADIGM SKYLIGHTS to the extent of 35,000 sq. ft. are to be installed on the new locomotive shops at Stratford, Ont., for the Grand Trunk Ry. by Arthur E. Rendle, of New York. The Arnold Company, Chicago, are the engineers. The concern also has the contract for about 17,000 sq. ft. of skylights for the car shops at London, Ont., for the Grand Trunk Ry.

THE EXPANDED METAL & CORRUGATED BAR CO., of St. Louis, Mo., has just completed shipment of one thousand tons of open-hearth steel corrugated bars for the United States Reclamation Service. This material is being used on irrigation works in connection with the Tieton Project. This order is one of several the above company has received for corrugated bars for irrigation work.

THE IRON MOUNTAIN ELECTRIC LIGHT & POWER CO., Iron Mountain, Mich., has lately let contracts for new electric generating and arc lighting equipment, comprising a 250-KW. Allis-Chalmers alternating current generator, 3-phase, 60-cycle, 2,300-volt, a 10-KW. belted exciter, a five-panel switchboard and 75 Adams-Bagnall arc lamps of the latest pattern. The generator is of the revolving field, two bearing type, belt driven.

THE CHICAGO BUILDERS SPECIALTIES CO., of Chicago, which has the agency for the Koehring concrete mixers, reports that at the cement shows in Chicago and Buffalo it will exhibit a type of mixer equipped with a charging hopper which does away with the use of platforms and runways for elevating the materials. Material for a batch is dumped into the hopper in its lower position and it is then raised by power and discharged into the mixer.

J. G. WHITE & CO., of New York, engineers and constructors for the Philippine railways, have contracted with the American Car & Foundry Co. for a third consignment of passenger equipment, consisting of four combination first-class and parlor coaches. These cars will have steel underframing and steel and ash sideframing. The bodies will be completed in teak and yellow pine, and will have a natural hard varnish finish both inside and out. The cars will be furnished with easy chairs in the parlor compartment in addition to the regulation seats, and will have fully equipped buffets and commodious lavatories. This class of rolling stock has become very necessary for the accommodation of foreigners and better class of natives. These cars will be used on the lines terminating in the southern ports of Cebu and Iloilo, the construction of these lines being now well advanced.

W. S. BARSTOW & CO., New York City, are Consulting Engineers for the Nairn Linoleum Co. in the erection of an entirely new plant at Kearny, N. J., on the Passaic River. A feature of the power-house equipment will be a 1,000-KW., 60-cycle Allis-Chalmers steam turbine and alternator wound for 3-phase, 600 volts. The power-house where this unit is to be installed will have an ultimate capacity of 4,000 KW. and the Passaic River will furnish the necessary cooling water.

TRADE PUBLICATIONS.

"THE DEISTER ORE CONCENTRATOR."—The Deister Ore Concentrator Co., Fort Wayne, Ind. Paper; 6 × 9 ins.; pp. 12; illustrated.

This pamphlet succinctly describes the Deister concentrator, its use, adjustment, etc.

REINFORCED CONCRETE.—Truss Metal Lath Co., New York. 9½ × 7¼ ins.; pp. 39; illustrated.

In our issue of Nov. 21, 1907, we noted the above publication as describing in some detail the "Truss Method of Reinforcement" in which a metal lath of trussed section is inserted in walls, partitions, etc., to give additional stability and strength. We, however, omitted to mention that inquiries in New York, New Jersey and the New England States should be directed to the Truss Metal Lath Co., 147 Fourth Ave., N. Y., which firm has all rights on the patent within that territory.

For other Proposal Advertisements see pages 59, 60, 61, 62, 63, 64, 65, 66 of Advertisements and Construction News page 190.

PIPING.

Orange, N. J.

Sealed proposals, endorsed "Proposals for suction and delivery pipe connection of pumping engine at the Chestnut Street Pumping Station, also proposals for steam and feed water piping at the Chestnut Street Pumping Station," all of said proposals to be submitted in accordance with the plans and specifications prepared by the City Engineer and filed in his office, and addressed to the Common Council of the City of Orange, will be received by the City Clerk at the hour of 12 o'clock noon on the first day of January, A. D. nineteen hundred and eight, in the Common Council chamber, Canfield Street Engine House, and opened publicly at said meeting in the presence of the bidders who may choose to attend.

Each proposal must be accompanied by an undertaking of a Surety Company, authorized to do business in the State of New Jersey, to the amount stated in each contract.

Specifications may be seen at the office of the City Engineer, Orange National Bank Building.

No bid will be considered unless the party making shall furnish evidence satisfactory to the Common Council of his experience and ability in this class of work, and his financial ability successfully to prosecute said contract in case the same shall be awarded him.

Bidders are required to state in their bids their individual names and places of residence in full.

The right to accept or reject any or all proposals is hereby reserved and may be deemed best for the interest of the city.

WILLETT B. CANO,
City Clerk.

Dated Orange, N. J., Dec. 13, 1907. 24-2t

SEWERS.

Durango, Colo.

Sealed bids will be received by the undersigned Mayor of the City of Durango, Colorado, up to nine o'clock P. M. of Monday, the 6th day of January, 1908, for the construction of three sanitary sewers in Sewer District Numbered One (1) in said City, known and designated as sewers Nos. 1, 2 and 3; the contractor to furnish all materials and complete sewers according to plans and specifications on file in the office of the City Clerk.

Each bid must be accompanied by a certified check on some Durango bank, payable to the City Treasurer of the City of Durango, for at least ten per cent of the amount of the bid, to be forfeited to the city in case such bid is accepted, and the bidder fails to furnish bond or to enter into contract for the construction of such sewers and the furnishings of such materials.

The successful bidder will be required to enter into bond in the amount of $15,000.00 for the faithful performance of his contract, with sureties to be approved by the City Council.

All bids must be upon forms which must be furnished by the City Clerk, and shall specify the price at which the work will be done and materials furnished, payable in cash and Sewer bonds of said Sewer District.

These sewers will require about 1,100 feet of ten-inch vitrified sewer tiling and 9,020 feet of eight-inch vitrified sewer tiling with necessary manholes, flushtanks, output, etc.

The Mayor and City Council reserve the right to reject any and all bids.

Dated at Durango, Colorado, this 3rd day of December, 1907.

HERMAN BERNDT,
[Seal] Mayor of the City of Durango.
24-1t

Situations Wanted

DRAFTSMAN AND ENGINEER, fifteen years' experience at power house, industrial plant and building construction, wants position; best references. Address "C. A. 22," Engineering News, New York. 24-1t

Assistant Superintendent

Seven years general engineer and construction work; sea-walls, foundations, tunnels (rock and sand headings). Last two years full charge shield-driven tunnels; go anywhere; references furnished. Address "W. A. 24," Engineering News, New York. 24-1t

Miscellaneous Wants

WANTED

A 10-ton Buffalo-Pitts Steam Roller

Send lowest cost price to THE HACKENSACK IMPROVEMENT COMMISSION, Hackensack, N. J. 24-2t

FOR SALE

FOR SALE

LOCOMOTIVE CRANE

5 ton crane. Used four months. Built by Northern Engineering Works. Thoroughly overhauled by expert and ready to operate.

A. D. THOMPSON,
101 Y. M. C. A. Bldg., Peoria, Illinois. 24-3t

FOR SALE

Bound Volumes of Engineering News

Years from 1889 to 1903, substantially bound in fifteen books. The property of the Estate of the Late W. F. Van Buskirk, C. E.

WM. MAHLON DAVIS,
Town Engineer, Berlin, Ont. 24-4t